

A Grammar of Yakkha

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A Grammar of Yakkha

Volume I

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Abbreviations

Linguistic abbreviations

1,2,3	person (1>3: first acting on third person, etc.)
SG/DU/PL/NSG	numerus: singular, dual, plural, nonsingular
A	most agent-like argument of a transitive verb
ABL	ablative
ADD	additive focus
AFF	affirmative
ALT	alternative
AUX	auxiliary verb
BEN	benefactive
B.S.	Bikram Sambat calender, as used in Nepal
CAUS	causative
CL	clause linkage marker
COM	comitative
COMP	complementizer
COMPAR	comparative
COMPL	completive
COND	conditional
CONT	continuative
COP	copula
CTMP	cotemporal (clause linkage)
CTR	contrastive focus
CVB	converb
EMPH	emphatic
ERG	ergative
EXCL	exclusive
EXCLA	exclamative
G	most goal-like argument of a three-argument verb
GEN	genitive
GSR	generalized semantic role
HON	honorific
HORT	hortative

Abbreviations

HSY	hearsay marker
IGN	interjection expressing ignorance
IMP	imperative
INCL	inclusive
INF	infinitive
INIT	initiative
INS	instrumental
INSIST	insistive
INT	interjection
IRR	irrealis
ITP	interruptive clause linkage
LOC	locative
MDDL	middle
MIR	mirative
NATIV	nativizer
NC	non-countable
n.a.	not applicable
n.d.	no data
NEG	negation
Nep.	Nepali
NMLZ	nominalizer
NPST	non-past
OPT	optative
P	most patient-like argument of a transitive verb
POL	politeness
PLU.PST	plupast
PRF	perfect tense
POSS	possessive (prefix or pronoun)
PROG	progressive
PST	past tense
PST.PRF	past perfect
PTB	Proto-Tibeto-Burman
PURP	purposive
Q	question particle
QUOT	quotative
RECIP	reciprocal
REDUP	reduplication
REFL	reflexive
REP	reportative
RESTR	restrictive focus

S	sole argument of an intransitive verb
SBJV	subjunctive
SEQ	sequential (clause linkage)
SIM	simultaneous
SUP	supine
T	most theme-like argument of a three-argument verb
TAG	tag question
TEMP	temporal
TOP	topic particle
TRIPL	triplication
V2	function verb (in complex predication)
VOC	vocative

Abbreviations of kinship terms

B	brother
BS	brother's son
BD	brother's daughter
BW	brother's wife
e	elder
D	daughter
F	father
FB	father's brother
FF	father's father
FM	father's mother
FZ	father's sister
H	husband
M	mother
MB	mother's brother
MF	mother's father
MM	mother's mother
MZ	mother's sister
S	son
W	wife
y	younger
Z	sister
ZS	sister's son
ZD	sister's daughter
ZH	sister's husband

Abbreviations

1 Introduction

1.1 Aims of this grammar

This work is the first comprehensive description of the Yakkha language (ISO-639: ybh), a Kiranti language spoken in Eastern Nepal. The primary focus of this work is on the dialect spoken in Tumok village.

The grammar is intended to serve as a reference to scholars interested in linguistic typology and comparative studies of Tibeto-Burman and Himalayan languages in general, and also as a foundation for members of the Yakkha community to aid future research and activities aiming at documenting and preserving their language.

The grammar is written in a typological framework. Wherever possible I have tried to incorporate a historical perspective and comparative data in explaining how a particular subsystem of the grammar works. For the sake of reader friendliness and to ensure long-term comprehensibility, the analyses are not presented within any particular theoretical framework, and terms that strongly imply a particular theory have been avoided as far as this was possible.

Preparing a grammar can be a simultaneously satisfying and frustrating task, both for the same reason: the sheer abundance of topics one has to deal with, which makes grammars very different from works that pursue more specific questions. Necessarily, a focus had to be set for this work, which eventually fell on morphosyntactic issues. Verbal inflection, transitivity, grammatical relations, nominalization, complex predication and clause linkage are dealt with in greater detail, while other topics such as phonology, the tense/aspect system and information structure leave much potential for further research. Since this is the first grammatical description of Yakkha, I have decided to include also the topics that are analyzed in less detail, in order to share as much as possible about this complex and intriguing language.

1.2 How to use the grammar

1.2.1 Structure of the book

Following the well-established traditional order, after providing some background on the language and its speakers (Chapter 2), the most important grammatical aspects of the language will be treated: phonology (Chapter 3), morphology (Chapters 4 – 10), syntax (Chapters 11 – 16) and, albeit briefly, discourse-structural particles and interjections (Chapter 17). Section 1.5 in this chapter provides a typological overview and highlights the main features of Yakkha by means of simple examples. Appendices contain (a) three narrative texts and (b) charts with the complex kinship terminology. The book also includes a subject index and an index to the grammatical morphemes found in Yakkha, in order to make the information on particular topics easily accessible.

1.2.2 Orthography and transliterations

The orthography used in this grammatical description does not represent the phonetic level, because it is impractical to note down every phonetic difference and individual variation, especially since a phonetic analysis is not the major goal of this work. The orthography does not represent the phonemic level either, because Yakkha has a complex system of morphophonological rules, so that the pronunciation may show considerable deviations from the underlying forms. This is the reason why I use a representation on the allophonic level, including allophones that are the result of voicing, assimilations and other morphophonological operations. Most examples in Chapter 3 on the phonology are supplemented by the underlying forms (in slashes), in order to demonstrate the morphophonological processes.

While the orthography employed here is based on IPA, some deviations have to be noted: following the common orthographic traditions found in descriptions of Tibeto-Burman languages, the symbol <y> is used for the palatal approximant (IPA: [j]), <c> is used for the alveolar fricative (IPA: [ts]), and <ch> stands for its aspirated counterpart (IPA: [ts^h]). Aspirated consonants are written <ph>, <th>, <kh>, <wh>, <mh>, <nh>, <ɲh>. Geminated consonants are written with double letters, e.g. [mm] or [ss]. Yakkha has several prefixes that have the phonemic value of an unspecified nasal. The nasal assimilates to the place of articulation of the following consonant. I do not use a special character for the nasal, but write it as it appears, i.e. as [m], [n] or [ŋ]. If the underlying form is provided, it is written /N/.

Nepali lexemes, used for instance when referring to sources of loans, are provided in the International Alphabet of Sanskrit Transliteration (IAST). Common place names are generally not transliterated, but provided in a simplified orthography that is generally found in local maps.

Yakkha does not have a writing tradition, but over the last few decades a few written materials have been published locally (cf. §1.4), using the Devanagari script, with varying orthographies. Devanagari is not ideal for Yakkha because it does not have a grapheme for the glottal stop, but a number of solutions have been used in these language materials, such as writing <ʔ> or using the grapheme for a central vowel <अ> together with a *virām* <◌̣> (indicating that the inherent vowel should not be pronounced in the Devanagari script). Devanagari is not used in this book, but in the Yakkha-Nepali-English dictionary that has been composed alongside this grammar I have used the option that incorporates <ʔ> into Devanagari.¹

1.2.3 Glossing and further conventions

The purpose of the glosses is to facilitate understanding the examples, which necessarily entails a simplification of the facts. The labels used in the glosses do not represent analyses. This is particularly important with regard to the person inflection. As is typical for Kiranti languages, an inflected form cannot be neatly segmented into straightforward form-function correspondences (though from a Kiranti perspective, the verbal inflection of Yakkha can be considered as rather simple). To provide an example, the transitive person marking on the verbs has labels such as ‘1pl.A’ (for the marker *-m*) in the glosses, so that the reader can identify the reference of a marker in a particular person configuration. The actual distribution of these markers is likely to be more narrow or wider than the gloss labels suggest (cf. §8.2). But glossing e.g. the above-mentioned marker with ‘1/2pl.A>3.P’ for would result in cryptic glosses that make reading the examples a rather cumbersome task.

Categories that have no corresponding overt marker, such as the subjunctive, are represented in square brackets, e.g. [SBJV]. This may have two reasons: either the morpheme is zero, or the morpheme got deleted in the surface form due to morphophonological processes. The nominative, which is also zero, is never written in the glosses. It is implied when a noun appears without an overt case marker.

¹Cf. <http://wwwstaff.eva.mpg.de/schackow/?nav=dictionary>

The category labels are congruent with the Leipzig Glossing Rules,² with Yakkha-specific category labels added where necessary. All abbreviations are listed on page xxiff.

Language-specific morphological categories such as the Past Subjunctive mood or the Ablative case are capitalized, to distinguish them from universal categories.

When kinship terms are used in the glosses, they are abbreviated according to common practice: lower case *e* and *y* stand for ‘elder’ and ‘younger’, upper case *M* stands for ‘mother’, *F* stands for ‘father’, *Z* stands for ‘sister’, *B* stands for ‘brother’, *W* stands for ‘wife’, *H* stands for ‘husband’, *S* stands for ‘son’, *D* stands for ‘daughter’. Combinations of them are read like possessive phrases, e.g. *FeZH* stands for ‘father’s elder sister’s husband’ (i.e., an uncle).

In the texts, and in some of the Nepali literature cited, the Bikram Sambat (also Vikram Samvat) calendar is used. This is the official calendar in Nepal, and it is 56.7 years ahead of the solar Gregorian calendar. Sources using this system have ‘B.S.’ written behind the year.

1.2.4 Notes on terminology

Nominalization

Nominalization is a versatile strategy in Sino-Tibetan languages, and its functions reach well beyond the classical uses of nominalization, which has given rise to the term ‘Standard Sino-Tibetan Nominalization’ (Bickel 1999c). Since also relative clauses, complement clauses and main clauses can be noun phrases structurally, the reader should note that this work employs a very liberal understanding of the term ‘nominalization’, as is commonly found in works on Sino-Tibetan languages. Alternatively, one could have made up new labels for each function of a nominalizer, such as ‘attributivizer’, ‘complementizer’, ‘factuality marker’, but then, the functional connection between these uses would have been obscured, especially since grammars are rarely read chronologically. I found that this use of the term puzzled readers and hearers who are not familiar with Sino-Tibetan languages. Still, I decided to retain the label ‘nominalization’ in this work also for the less canonical uses of nominalization, in order to keep functional and historical connections maximally transparent.

A similar issue is the employment of case markers in clause linkage. I retained the case labels also when these markers attach to (not necessarily nominalized) clauses as clause linkage markers. Especially if one case marker is highly multi-

²Cf. <http://www.eva.mpg.de/lingua/resources/glossing-rules.php>.

functional in clause linkage, it is futile to find new labels for each function (the comitative marker =*nun* is an example, see Chapter 14.7).

Generalized Semantic Roles (GSRs)

I have analyzed Yakkha argument structure and grammatical relations by looking at how generalized semantic roles (GSR) are realized and aligned in morphology and syntax, following the methodology of Bickel (2010b) and Witzlack-Makarevich (2010). GSRs are defined by their semantic properties and they are always determined in relation to a particular predicate. For instance, the most agent-like argument (A) of *mokma* ‘hit’ is the hitter, and the most patient-like argument (P) is the hittee. The sole argument of an intransitive verb is the S argument. Analogously, one can identify the most goal-like argument (G) and the most theme-like argument (T) of three-argument constructions. The identification of GSRs purely follows semantics, and is determined regardless of how the arguments are realized in morphology and syntax. For instance, the most agent-like arguments of experiential predicates such as ‘love’ and ‘be disgusted’ (i.e., the experiencers) are realized as possessors in one particular verb class in Yakkha.

Such an approach is necessary because Yakkha does not have a dominant alignment type, and thus, a morphologically and syntactically consistent notion of ‘subject’ and ‘object’ cannot be determined. In converbal constructions, S and A align, while in case marking and in some complement constructions S and P align. Nominalization and relativization constructions present a mixed picture. Marginally (only in verbal person marking and in complement clauses), the privileged argument can also be determined by reference and by information structure. The most bewildering diversity of alignment types is found in the verbal person marking.³

The Yakkha verb, if transitive, shows agreement with both arguments. To identify the respective morphology, I use the terms ‘transitive subject agreement’ and ‘object agreement’. It should be kept in mind that these labels do not imply any particular formally unified behavior, neither with respect to case and person marking nor with respect to the choice of pivots in any construction. In the glosses, the labels ‘A’ and ‘P’ are used, since in the standard frame of argument realization markers referred to by ‘A’ index A arguments and markers referred to by ‘P’ index P arguments. This need not be the case, however, as some experiencer arguments might be realized as P morphologically, e.g. in experiential verbs such as *khikma* ‘taste bitter to someone’ (cf. Chapter 11).

³This diversity is not random and has parallels in the related languages, cf. §8.2.

1.3 Data sources

1.3.1 Fieldwork

The material used to write this grammar was collected during four field trips between 2009 and 2012, amounting to roughly one year altogether. I have spent most of the time in Tumok (Nepali: Tamaphok) village, with occasional visits to the surrounding villages Waleng (Nepali: Madi Mulkharka), Mamling, Yaiten (Nepali: Dandagaun), Hombong and to the market town Mudhe Saniscare. Tumok is a night's and half a day's bus ride away from Kathmandu (via Dharan, Dhankuta and Hile). One gets off the bus in Mudhe Saniscare and walks down to Tumok village for another hour or two.⁴

During the first field trip in 2009 Kamala Koyongwa travelled with me, helping me in many ways. From the first year on I stayed with Kamala Linkha, a teacher at the Shree Chamunde Higher Secondary School in Tumok, who became my friend and also my main Yakkha teacher, simply by sharing her everyday life with me. She never grew tired of explaining her language and aspects of Yakkha life to me. Magman Linkha, a teacher at the same school, has provided me with numerous beautifully-told narratives. He also helped me to check transcriptions and dictionary entries, patiently answering my many questions. Since he is himself engaged in various activities aiming at documenting and preserving his cultural heritage, he was also my most important source regarding sociolinguistic and ethnographic questions. In 2010, Kamala's niece Man Maya Jimi, a student who also works in adult literacy education programs, started working with me and proved to be a patient and thoughtful consultant in elicitations, transcriptions, translations and dictionary checks. In Kathmandu, I also had several valuable elicitation sessions with Kaushila Jimi and her son Sonam as well as with Visvakaji Kongren.

During the early trips (2009 and 2010) I recorded texts from various genres (legendary and autobiographical narratives, spontaneous conversations, songs, pear stories, procedural descriptions) and tried to gather as much language data as possible while living in the village. In total, I recorded utterances from 22 different speakers. The youngest person recorded was 16 years old, the oldest people were above 60 years. To each person recorded I have explained the purpose of the recordings and my plan to archive them online. Their consent is mostly found as part of the recordings, usually at the end of the files. After analyzing the data

⁴Alternatively, one may take a domestic flight to Tumlingtar and try to catch a bus or a jeep there, but since the transport situation was not reliable in Tumlingtar in 2009 and 2010, I resorted to making the journey to the east by bus in my later field trips (2011 and 2012).



Figure 1.1: My main Yakkha teachers: Kamala Linkha, Man Maya Jimi, Magman Linkha

in Germany, I used the later trips (2011 and 2012) mainly for refined elicitations and data checking, with the consultants mentioned above in Tumok and in Kathmandu.

In the elicitations, relying on nonverbal stimuli in the natural environment proved to be much more productive than prepared questionnaires or audiovisual stimuli. The only stimuli that I have used were the Pear Story (Chafe 1980) and the Cut and Break Clips (Bohnemeyer et al. 2010). Questionnaires that were used included the questionnaire from the Leipzig Valency Classes Project (Max Planck Institute for Evolutionary Anthropology), the questionnaire from the project on referential hierarchies in three-participant constructions (University of Lancaster) and the Questionnaire for Transitivity/Detransitivizing Verb Systems (by Johanna Nichols). The other topics were elicited with questionnaires compiled by myself and on the spot when certain topics came up during transcriptions and checks of the lexical data. Elicitations on clause linkage in 2012 were partly undertaken together with Lennart Bierkandt for a co-authored paper (Bierkandt & Schackow (submitted)).

1.3.2 The corpus

The structure and content of the current Yakkha corpus is displayed in Table 1.1. The corpus contains 3012 clauses and roughly 13.000 annotated words. The texts are transcribed and annotated audio-recordings of roughly 3 hours length. The texts of the genre ‘legacy data’ are only available in written form, using Devanagari script. They are taken from school books (Jimi et al. 2009; 2010) and from narratives that originated in a workshop organized in 2012 by the Mother Tongue Center Nepal, a branch of the UN Mission to Nepal (Yakkha 2012a;b, Linkha 2012).

I have transliterated them into the orthographic representation used in this work, with slight adjustments where the orthographies used were rather impractical, for instance when they lumped together the voiceless and voiced consonants or /r/ and /l/ (which is the case in the school books). Researchers using the corpus should be aware of the fact that many neologisms are used in written Yakkha that are not (yet) established in the spoken language.

GENRE	NUMBER OF RECORDINGS	RECORDS (roughly corr. to clauses)
narratives	8	488
conversations	5	1336
pear stories	4	225
songs	3	40
legacy data (written)	5	595
texts on tradition and material culture	3	328
	28	3012

Table 1.1: Content of the annotated Yakkha corpus

The texts are labelled as follows: a unique identifier, followed by an underscore and a three-letter genre code, followed by an underscore and the number of the text from that particular genre. For example, a text coded ‘12_nrr_03.wav’ is the twelfth recording in total and the third text of the genre ‘narrative’; ‘12_nrr_03.txt’ is the corresponding text file. These labels (including the record number) are provided when the examples are from the corpus; when no such label is provided, the examples are from elicitations or from unrecorded spontaneous speech. The applications used for annotation and time alignment were Toolbox⁵ and ELAN.⁶

The genre codes are displayed in Table 1.2. The corpus is currently being curated and will be accessible online via the Endangered Languages Archive (ELAR).⁷

⁵<http://www-01.sil.org/computIng/toolbox/index.htm>

⁶<http://tla.mpi.nl/tools/tla-tools/elan/>

⁷<http://www.hrhelp.org/archive/>. The annotations in this work may, in a few cases, deviate from the annotations in the archived corpus, as upon closer inspection during the analyses some minor adjustments were inevitable. The examples as they are analyzed and annotated in this work represent the most recent state of analysis.

CODE	GENRE
nrr	narrative
cvs	conversation
sng	song
mat	description of material culture
tra	description of traditions
pea	pear story
par	elicited paradigm
leg	legacy data (written)

Table 1.2: Text genres and codes

1.3.3 The lexical database

The lexical database⁸ contains 2429 entries, all checked with at least two speakers. It contains grammatical, semantic, phonological and ethnographic notes as well as botanical terms (relying on the Nepali translations given in Manandhar (2002) and occasionally Turner (1931)). One may also browse for parts of speech and for semantic categories, if one is interested in particular semantic domains like body parts, kinship, spatial orientation, colour terms etc. A digital community version of the dictionary (using Lexique Pro),⁹ with the Yakkha entries in Devanagari, can be found online.¹⁰

1.4 Earlier studies on Yakkha language and culture

Material on the Yakkha language that is available beyond local sources is exceedingly rare. The oldest source is a wordlist in Hodgson (1857). A chapter in the Linguistic Survey of India provides a brief introduction and some Yakkha texts that were collected with Yakkha speakers who had migrated to Darjeeling (Grierson 1909: 305-315).¹¹

⁸Archived at the Endangered Languages Archive (ELAR) together with the corpus, cf. <http://www.hrelp.org/archive/>.

⁹<http://www.lexiquepro.com/>

¹⁰Cf. <http://dianaschackow.de/?nav=dictionary>. Even though the database has been carefully checked, it is likely that further corrections and additions will be made in the future.

¹¹This source and Russell (1992) use a spelling <Yakha>, but the correct spelling is <Yakkha>, since the first syllable is closed by /k/. In contemporary sources, also in Devanagari, the language name is always written as <Yakkha>.

More recent works on the language are a glossary (Winter et al. 1996), a Yakkha-Nepali-English dictionary (Kongren 2007b), two articles about the inflectional morphology, both based on the same verbal paradigm collected by Gvozdanović (Gvozdanović 1987, van Driem 1994), and an article by myself on three-argument constructions (Schackow 2012b).

Research on cultural and political aspects has been undertaken by Subba (1999) and by Russell (Russell 1992; 1997; 2000; 2004; 2007; 2010). Recently, two M.A. theses on aspects of Yakkha culture have been completed in Nepal, one thesis on culture and adaptation by Rai (2011) and one thesis on kinship terms by Linkha (2013). Ethnographic introductions in Nepali can be found by Kongren (2007a) and by Linkha (2067 B.S.), the former containing also some English chapters. Further locally available materials in Yakkha and Nepali are a collection of poems (Dewan et al. 2059 B.S.) and a collection of thematically ordered wordlists and articles on the Yakkha traditions (Linkha & Dewan 2064 B.S.). For a more detailed bibliography of the works on Yakkha that were published in Nepali the interested reader is referred to Rapacha et al. (2008).

1.5 Typological overview of the Yakkha language

The following brief overview is intended for the reader who is not familiar with Kiranti languages or other Sino-Tibetan languages in general. It provides basic information on the most important features of the language.

1.5.1 Phonology

Yakkha has five vowel phonemes (/i/, /e/, /a/, /o/ and /u/). Diphthongs are rare and can mostly be traced back to disyllabic structures. The basic distinctions in the consonant phonemes, according to place of articulation, are bilabial, alveolar, retroflex, palatal, velar and glottal. Plosives, the affricate and the bilabial glide have an aspirated and an unaspirated series. The maximal syllable structure is CCVC. Complex onsets originate in disyllabic structures too; they consist of sequences of obstruent and lateral, rhotic or glide. The syllable coda is mainly restricted to nasals and unaspirated plosives. The morphophonological processes are manifold and very complex in Yakkha, with each rule applying to its own domain (discussed in §3.5). A feature located at the boundary between phonology and morphology is a process of copying nasal morphemes in the verbal inflection (discussed in §3.5.8). This process is typical for Kiranti languages.

1.5.2 Word classes

Morphology and syntax clearly distinguish nominal and verbal classes in Yakkha (see Chapters 5 and 8). Word classes appearing in the noun phrase are demonstratives, pronouns, quantifiers and (marginally) numerals (see Chapter 4). Numeral classification exists, but it plays only a very marginal role. The verb shows complex inflectional morphology, resulting in hundreds of possibilities of inflection for each verbal stem.

Less clear is the distinction of adjectives and adverbs, as many of them derive from verbal roots. However, the salience of reduplication and rhyming patterns in noun-modifying and verb-modifying lexemes justifies treating them as separate word classes (see Chapter 6). Rhyming and reduplications, often combined with ideophones, almost exclusively feature in the classes of adjectives and adverbs in Yakkha.

Other word classes constitute closed classes, such as conjunctions, postpositions, interjections and discourse-structural particles (see Chapters 16 and 17). The postpositions are partly derived from relational nouns.

1.5.3 Nominals

Yakkha nouns can be simple or compounded out of several nominal roots. There are several nominalizers in Yakkha, some deriving nouns (*-pa* and *-ma*), some constructing noun phrases (*-khuba*, *-khuma* and *=na/=ha*).

Nouns can be inflected by possessive prefixes, alternatively to using possessive pronouns (compare (1a) and (1b)). The possessive prefixes are very similar in form to the possessive pronouns. Case and number markers are clitics; they attach to the whole noun phrase. Yakkha has an unmarked nominative, an ergative/instrumental *=ŋa*, a genitive *=ka*, a locative *=pe*, an ablative *=phaŋ*, a comitative *=nuŋ*, and further markers with less central functions, mainly from the comparative domain. Argument marking shows reference-based and word class-based alternations (discussed in §5.2 for the ergative case and in §11.2.2 for three-argument constructions).

- (1) a. *a-paŋ=be*
 1SG.POSS-house=LOC
 ‘in my house’
 b. *ak=ka* *paŋ=be*
 1SG.POSS=GEN house=LOC
 ‘in my house’

1.5.4 Verbs

The inflected verb indexes agents and patients of transitive verbs and expresses many grammatical categories (tense/aspect, mood, polarity (see (2)). This example also shows the above-mentioned process of nasal copying; suffix *-m* appears twice in the suffix string. Person (including clusivity), number and syntactic role marking interact in intricate ways in the person marking paradigm (see §8.2). As example (2) shows, the Yakkha verb is mainly suffixing; there is only one prefix slot.

- (2) *n-dund-wa-m-ci-m-ŋa-n=ha*
 NEG-understand-NPST-1PL.A-NSG.P-1SG.A-EXCL-NEG=NMLZ.NSG
 ‘We do not understand them.’

Yakkha has a very productive system of complex predication, where several verbal roots are concatenated to yield a more specific verbal meaning (discussed in Chapter 10). In complex predicates, the first verb carries the lexical meaning, while the second verb adds a further semantic specification, for instance regarding aktionsart, the spatial directedness of the event, or the affectedness of some argument. In (3), the second verb carries a benefactive notion, adding a beneficiary argument to the argument structure of the lexical verb. Complex predicates trigger recursive inflection, as shown here by the imperative marker *-a*, that appears twice (treated in detail in Chapter 10). Predicates can also be compounded by a noun and a verb (see Chapter 9).

- (3) *ka katha lend-a-by-a-ŋ*
 1SG story exchange-IMP-V2.GIVE-IMP-1SG.P
 ‘Tell me a story.’

1.5.5 Syntax

Yakkha phrase structure is overwhelmingly head-final, with the nominal head at the end of the noun phrase, and with the verb being the final constituent of the clause (see (4a)). In complex clauses, the subordinate clause generally precedes the main clause (see (4b)). Nominalizers and markers of clause linkage can follow the verb. Permutations of the word order are possible (see Chapter 12); they follow discourse requirements. Arguments are frequently dropped, resulting in a low referential density.

- (4) a. *raj=ŋa u-ma kheps-u=na*
 Raj=ERG 3SG.POSS-mother hear[PST]-3P=NMLZ.SG

- ‘Raj heard his mother.’
- b. *tumok=pe tas-u-ŋ=hoŋ a-phu*
 Tumok=LOC arrive[PST]-3P-1SG.A=SEQ 1SG.POSS-elder_brother
chimd-u-ŋ=na
 ask[PST]-3P-1SG.A=NMLZ.SG
 ‘When I arrived in Tumok, I asked my elder brother (about it).’

Argument structure in Yakkha distinguishes several valency classes, discussed in Chapter 11. The basic distinction is that between intransitive and transitive verbs, which is also reflected in two different verbal inflectional patterns. There is a class of labile verbs, mostly showing an inchoative/causative alternation. Experiential predicates predominantly occur in a construction that treats the experiencer as the metaphorical possessor of a sensation or an affected body part (the Experiencer-as-Possessor Construction, see (5)).

- (5) a. *a-pomma=ci ŋ-gy-a=ha=ci*
 1SG.POSS-laziness=NSG 3PL-come_up-PST=NMLZ.NSG=NSG
 ‘I feel lazy.’
- b. *ka nda a-luŋma tuk-nen=na*
 1SG[ERG] 2SG 1SG.POSS-liver pour-1>2[PST]=NMLZ.SG
 ‘I love you/I have compassion for you.’

The argument structure can be modified, by means of derivations (causative), complex predication (benefactive, middle, reflexive), and an analytical construction (reciprocal), as shown in (6). Both the reflexive and the reciprocal construction make use of a grammaticalization of the verbal root *ca* ‘eat’.

- (6) a. *kiba=ŋa hari kisi-met-u=na*
 tiger=ERG Hari be_afraid-CAUS-3.P[PST]=NMLZ.SG
 ‘The tiger frightened Hari.’
- b. *nda (aphai) moŋ-ca-me-ka=na*
 2SG (self) beat-V2.EAT-NPST-2=NMLZ.SG
 ‘You beat yourself.’
- c. *kanciŋ [...] sok-khusa ca-ya-ŋ-ci-ŋ*
 1DU [...] look-RECIP eat.AUX-PST-EXCL-DU-EXCL
 ‘We (dual, excl) looked at each other.’

Furthermore, morphologically unmarked detransitivizations are possible (marked only by the person marking morphology changing from the transitive to the intransitive pattern). In this way, both antipassive and passive constructions may occur in Yakkha, sometimes leading to ambiguities. In (7), the person morphol-

ogy on the verb is intransitive in both examples, signalling a third person singular subject of an intransitive verb, although *khemma* ‘hear’ is clearly transitive, and in most cases is inflected transitively (compare with (7c)). While (7a) is a passive structure, (7b) is an antipassive. Unmarked antipassives (the morphosyntactic demotion of a generic or unspecific object) are wide-spread in Kiranti languages, but unmarked passives are, to this point, only known in Yakkha. The more frequent structure is, however, the antipassive, which is not surprising given its older nature.

- (7) a. *ce?ya kheps-a-m=ha*
 matter hear[3SG]-PST-PRF=NMLZ.NC
 ‘The matter has been heard.’
 b. *Dilu reqio khem-me?=na?*
 Dilu radio hear[3SG]-NPST=NMLZ.SG
 ‘Does Dilu listen to the radio (generally)?’
 c. *pik=ŋa kiba kheps-u=na*
 cow=ERG tiger hear[PST]-3P=NMLZ.SG
 ‘The cow heard the tiger.’

Yakkha does not have a dominant grammatical relation, both reference-based and role-based (ergative, accusative) alignment patterns are found, depending on the particular construction. Especially the verbal person marking system shows an incredible heterogeneity of alignment types, which is, however, not unusual in a Kiranti-wide perspective (see Figure 8.2 on page 224).

Nominalization is a core feature of Yakkha syntax (discussed at length in Chapter 13). The nominalizers have a wide range of functions, from nominal modification/relativization and complement clauses to marking independent clauses. The nominalizers *-khuba* and *-khuma* construct noun phrases (and relative clauses) with the role of S or A, while the nominalizers *=na* and *=ha* are almost unrestricted with regard to which participant they can relativize on (see (8)). The only relation not found with relative clauses in *=na* or *=ha* is A, which results in syntactic ergativity for relative clauses, since S and P are treated the same by this relativization and differently from A. The nominalizers *=na* and *=ha* are also frequently used to nominalize independent clauses, with the function of structuring information on the text level (see Chapter 13.3.3).

- (8) a. *heko=ha=ci mok-khuba babu*
 other=NMLZ.NSG=NSG beat-NMLZ boy
 ‘the boy who beats the others’

- b. *nna o-hop wa-ya=na sin*
that 3SG.POSS-nest exist-PST[3SG]=NMLZ.SG tree
‘that tree where he has his nest’

Complement constructions show long-distance agreement, distinguishing various subtypes, each with its own configuration of person and case marking (see Chapter 15). There are two basic types; infinitival complement clauses and inflected complement clauses (see (9)). In this particular example, the same complement-taking verb *mi?ma* acquires two separate meanings, depending on whether the embedded structure is infinitival or consisting of an inflected verb.

- (9) a. *ka khe?-ma mit-a-η-na*
1SG go-INF think-PST-1SG=NMLZ.SG
‘I want to go.’
b. *nda cama ca-ya-ga=na mi-nuη-nen=na*
2SG[ERG] rice eat-PST-2=NMLZ.SG think-PRF-1>2=NMLZ.SG
‘I thought you ate the rice.’

Adverbial clause linkage has three major types; infinitival clauses (see (10a)), converbs (see (10b)) and inflected adverbial clauses (see (10c)). The subtypes of these three basic types are discussed in detail in Chapter 14. Further conjunctions can connect clauses on the text level, such as *kha?ningo* ‘but’ and *nhanya* ‘and then, afterwards’.

- (10) a. *uηci=ηa men-ni-ma=ga cum-i*
3NSG=ERG NEG-see-INF=GEN hide-1PL[PST]
‘We hid, so that they would not see us.’
b. *o-pomma ke-saη ke-saη kam*
3SG.POSS-laziness come_up-SIM come_up-SIM work
cog-wa
do-NPST[3SG.A;3.P]
‘He does the work lazily.’
c. *ka kucuma khas-a=nuη*
1SG[ERG] dog be_satisfied[3SG]-SBJV=COM.CL
pi-η=ha
give[PST;3.P]-1SG.A=NMLZ.NSG
‘I fed the dog sufficiently (in a way that it was satisfied).’

2 The Yakkha language and its speakers

This chapter provides basic information on the geographical (§2.1) and the cultural-historical background of the Yakkha language (§2.2), a genealogical classification of Yakkha as a member of the Kiranti language family (§2.3), and the sociolinguistic (§2.4) context. The reader should note that the following observations are not made by a trained anthropologist. An in-depth anthropological study is beyond the scope of this introductory chapter (see §1.4 for existing anthropological studies).

In this chapter, the term ‘Kiranti’ can indicate both ethnic and linguistic affiliations. It refers to a group of roughly 30 ethnically and linguistically distinct, but related, communities in eastern Nepal. The internal structure of the Kiranti group is complex, and linguistic classifications may deviate from ethnic classifications; cf. §2.2 below.

2.1 Geographical context

Nepal can roughly be divided into three geographical zones: the Himalayan range in the north, the middle hills (the Mahabharat range, stretching parallel to the Himalayan range) and the plains in the south (the Tarai). The Himalayan range is home to speakers of Tibeto-Burman languages. The plains are mostly inhabited by speakers of Indo-Aryan languages. Furthermore, a few Austroasiatic languages, one Dravidian language and an isolate (Kusunda) are spoken in Nepal. Speakers of Kiranti languages, including Yakkha (see Figure 2.1), inhabit the hilly area between the Likhu river in the west and the border with Sikkim in the east, with elevations between 1,500m and 2,700m. Kiranti settlements can also be found in the plains and in India (Darjeeling, Sikkim).

2 The Yakkha language and its speakers

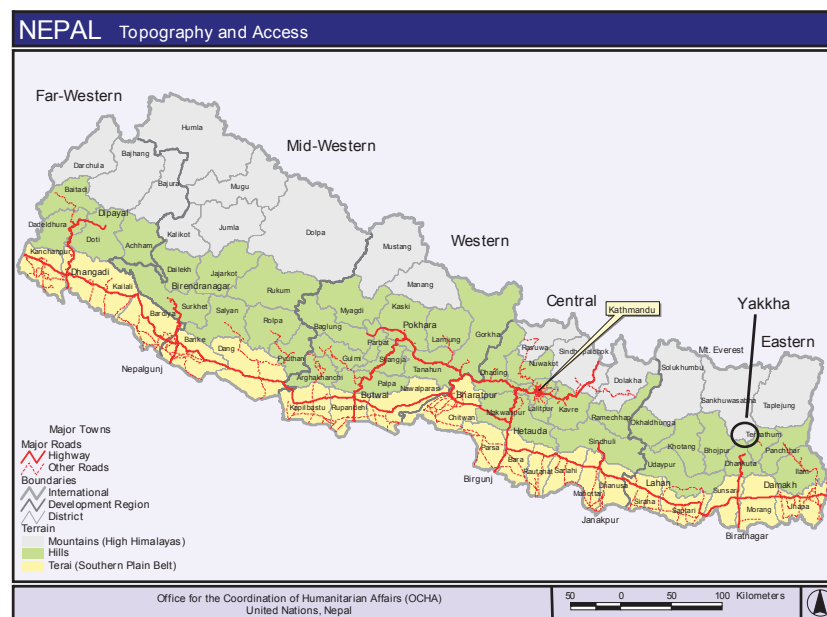


Figure 2.1: Location of the Yakkha region within Nepal (United Nations Map Centre; <http://www.un.org.np/resources/maps>, accessed on 17 January 2014)

The Yakkha region (i.e. the area inhabited by people who consider themselves Yakkha ethnically)¹ is located in the Koshi zone of the Eastern Development Region, in the south of Sankhuwa Sabha district and in the north of Dhankuta district (see the maps in Figure 2.2 and Figure 2.3). Within the region in Eastern Nepal commonly known as *Kirant* ('Kiranti area'), the Yakkha region belongs to the *Pallo Kirant* 'Far Kiranti area', located to the east of the Arun river.

The core Yakkha region contains the following Village Development Committees (VDCs):² Canuwa, Marek Katahare and Dandagaun in Dhankuta district, and Tamaphok (Tamfok in the map), Mamling, Ankhinbhuin, Madi Mulkharka, Madi Rambeni, Baneshwor, Chainpur, Kharang, Wana (Bana in the map), Siddhakali, Siddhapokhari and Syabun in Sankhuwa Sabha district. The Yakkha region is also known as the *Tin Thum* ('The Three Regions'): the *Das Majhiya* in the south, the *Panch Majhiya* in the middle and the *Panch Kapan* in the north (Kongren 2007a:

¹If the region were defined by linguistic criteria, it would be much smaller; see below in this section.

²Nepal is administratively divided into five development regions, 14 zones, 75 districts and 3,913 village development committees (VDCs). Each VDC contains several villages and is further divided into numbered wards.

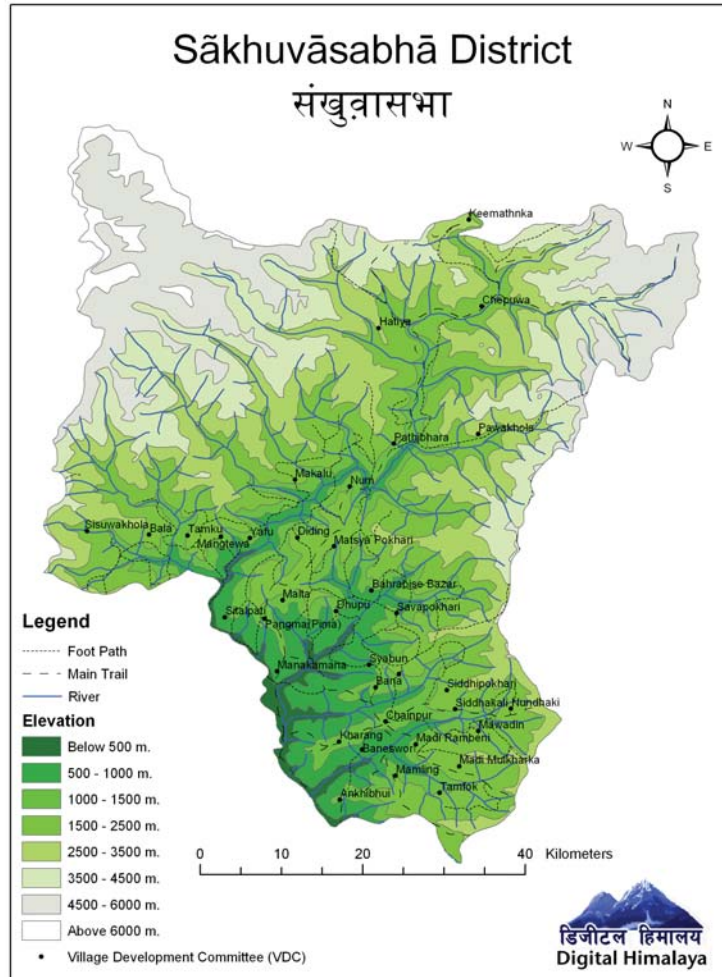


Figure 2.2: Map of Sankhuwa Sabha district, with Yakkha villages in the south (Joshi 2012)

86), a distinction originating in the tax system that was enforced under the Gorkha rule in the 18th century. The language is only spoken by parts of the Yakkha population. Curiously, the language proficiency decreases drastically towards the north of this area (Magman Linkha, p.c.), contrary to the expectation that greater distance to the main roads and thus greater isolation should have had a positive effect on the preservation of a language.

Yakkha has at least four dialects (see §2.4.1 below). The focus of this work is on the Tumok dialect, named after the village where it is spoken (27.208°N, 87.384°E), in Tamaphok VDC.³ Tumok lies on the south-western slopes of the Maya Khola valley.⁴ The Maya Khola flows north-west into the Piluwa Khola, which is a tributary of the Arun river (the main river in the region, partly flowing along the south-western border of Sankhuwa Sabha district). Tumok is located approximately 1500 m above sea level. Villages in this hilly region generally spread over several hundred meters of altitude, because the houses are not built close to each other, allowing space for fields between them. The great extension of the villages may lead to climatic differences and to differences in the crop cycle even within one village. The speaker density in Tumok is very high, and even parts of the non-Yakkha population speak Yakkha.⁵ Figure 2.4 shows the view from Tumok towards the Himalayan range in the north.

Yakkha speakers can also be found outside the core area defined above. There are about 80 households in the south-east of Dhankuta district, in Mudhebas VDC, Kuruletenupa VDC and Bodhe VDC (Magman Linkha, p.c.). In Ilam district, a Limbu-speaking region bordering with India, Yakkha speakers are reported to live in Namsaling village, speaking a dialect that is perfectly intelligible with the Yakkha from the core area. Nowadays there are also many Yakkha people living outside the hills, in the city of Dharan (Sunsari district) and other places in the Tarai and in India (especially in Darjeeling and Sikkim). The common reasons for migration are search for land or employment. Of course, Yakkha are also found elsewhere in the world due to the high rate of Nepali emigration for the previously mentioned reasons as well as education.

The Yakkha region is surrounded by other Kiranti languages. Going clockwise, starting in the east, these are Limbu (including the Tamarkhole, Phedappe and Chatthare dialects). Athpare, Chiling, Belhare and Chintang follow in the south, Bantawa and Dungmali in the west, Mewahang, Lohorung and Yamphu in the

³Tamaphok is also the Nepali name of Tumok. Many Yakkha villages have both a Nepali name and a Yakkha name. Impressionistically, Yakkha names are used to refer to particular villages, while Nepali names are used to refer to VDCs (which are in general conglomerations of several villages). This is also the case e.g. for Waleng (Nepali: Madi Mulkharka), Yaiten (Nepali: Dandagaun) and Angbura (Nepali: Omruwa).

⁴*kholā* is a Nepali word for 'little river'.

⁵Among the non-Yakkha population, it is more common to speak Yakkha for members of castes that were perceived as 'low' (according to Hindu social law) than for members of so-called 'high' castes. Despite changes in the legal system, these distinctions still play a role in social practice, and thus, it is more attractive for members of discriminated groups to learn Yakkha, while members of 'high' castes often do not know any Yakkha, even after living in the area for decades.



Figure 2.4: Tumok at the end of the rainy season, Sept. 2012

north. This geographical classification has to be understood in an idealized sense. Most of the villages in Nepal are ethnically and linguistically diverse, so that one may also find Sherpa, Gurung, Tamang, Newari and Parbatiya (Nepali speaking) households in the Yakkha region.

2.2 Cultural and historical background

2.2.1 Kiranti

Kiranti (also Kirāt, Kirāta, Kirāti) nowadays refers to a set of roughly 30 communities speaking related languages, who inhabit the Himalayan foothills in Eastern Nepal and share key cultural practices, including nature worship and a body of oral knowledge, myth and ritual in which the veneration of ancestors plays a major role (known as *Munthum* in Yakkha). Within these parameters, however, there is considerable heterogeneity of cultural practices, beliefs and origin myths, and shifting ethnic and linguistic affinities do not seem to be uncommon (Yakkha itself being a prime example, as will be explained further below).⁶

⁶Although this is commonly overlooked in current politics in Nepal, present-day ethnic distinctions are the product of several waves of migrations and millenia of mutual influence in the Himalayan contact zone of Indosphere and Sinosphere (terms from Matisoff, e.g. Matisoff (1990b)). The perception of distinct ‘pure’ and time-stable ethnic and linguistic groups

We have very little historically verified knowledge about the Kiranti people.⁷ The term Kiranti comes from Sanskrit *kirāta* and dates back to Vedic texts such as the Atharvaveda, which is considered the oldest Veda after the Ṛgveda (van Driem 2001: 594). It is generally accepted by Nepali and foreign historians alike that kings known as Kiranti (or Kirāta) must have ruled over central Nepal before they were overthrown by the Lichhavis early in the first millenium CE (Whelpton 2005: 13). However, the well-documented history of Nepal unfortunately begins only with the Lichhavi dynasty, so that it is not at all clear whether the ancient Kirantis were the forefathers of the Kiranti people who currently live in eastern Nepal. One should note that in the old Indian texts the term *kirāta* had a much broader reference, applying to Tibeto-Burman hill peoples in general (Whelpton 2005, Schlemmer 2003/2004). The self-designation ‘Kiranti’ in the present sense came to be used only with the advent of the Gorkha kings, when a common Kiranti identity began to evolve under Hindu dominance (Gaenszle 2002: 340). Before that era, there was no common feeling of being Kiranti; clan affinities were most important, and autonyms such as Khambu/Khombo (for the Rai) and Yakthumba (for the Limbu) were used among the Kiranti groups.

Present-day Kiranti legends trace the groups’ origins to a variety of locales, from Tsang in Tibet to Varanasi in the Gangetic plains (see van Driem 1987: xix for Limbu), or places in the Tarai (see Gaenszle 2012: 34 for Mewahang).⁸ It is not known when and how the ancestors of the Kiranti groups entered Nepal, but it

presents a highly idealized picture that does not do justice to the complex social reality of a multi-ethnic country like Nepal. Most current ethnic identities have been shaped by mixing with other groups or by adapting in certain ways to other groups, and these processes are, of course, continuing in the present.

⁷The work of renowned Limbu historiographer Iman Singh Chemjong (Chemjong 1967), widely perceived as the major source on Kiranti history among the Kiranti people, uses the available sources (both western scholarly work and indigenous chronicles) with few epistemological criticisms, and does not provide sufficient evidence to be called historical in the academic sense. It is rather to be seen as an attempt to anchor Kiranti culture in the deepest possible past and the widest possible area, with ‘evidence’ spanning large parts of Eurasia from Greece to Cambodia (Schlemmer 2003/2004: 125). Despite its methodological shortcomings, Chemjong’s work must be praised for its contribution to the acknowledgement and recognition of a distinct and unique Kiranti culture (see also Gaenszle 2002: 340).

⁸The Yakkha legends I recorded are about their ancestors’ deeds and journeys in the area where present-day Yakkha people live; my own materials do not contain myths regarding a prior place of origin. This does not imply that there are no such myths. I have recorded only eight narratives, which is probably not even close to representative of what is still out there unrecorded. In general, the Kiranti groups have a strong concern for the past and vibrant oral traditions in which origins and migrations are recalled for many generations (Gaenszle 2000; 2002).

is highly likely that they came at least 2000 years ago from the east (van Driem 2001, LaPolla 2001, Gaenszle 2002). Kiranti languages show striking similarities with rGyalrongic languages spoken in the South of China and with the extinct Tangut language, especially with regard to hierarchical patterns in the person marking system (see e.g. DeLancey (1981), Ebert (1990), LaPolla (2007), Jacques (2012), and also §8.2 and §15.1.7 of this work), although direct contact between these groups has not been proven.⁹ Another argument for migration from the east is that those Tibeto-Burman groups that have entered Nepal via the north, such as the Tamangs for instance, show a close relation to Tibetan culture and Tibetan Buddhism (LaPolla 2001), while Kiranti culture is clearly distinct from Tibetan culture.¹⁰

The Kiranti peoples' more recent history has been described in various sources (Caplan 1970, Pradhan 1991, Gaenszle 2002, Schlemmer 2003/2004, Whelpton 2005) and will be only briefly summarized here. Nepal as a nation state was founded by Prṥhvī Nārāyaṇ Śāha (1723-1775), the king from Gorkha¹¹ who conquered the area known as Nepal today. Seen as a hero by Nepali nationalists, for the ethnic minorities his name stands for the suppression of their cultures and languages. Local groups confronted the king and his successors with strong armed resistance, but eventually Gorkha rule was established. The Kiranti region, bordering British-ruled Sikkim in the East, was critical to maintaining the Gorkha rule, and in order to keep the Kiranti groups loyal, they were given a privileged status and a certain degree of autonomy. In a system known as *kipāt*, land rights were reserved for Kiranti people who owned the land by virtue of their ethnic affiliation. Local headmen were appointed to collect taxes. The titles given to them (Rai, Subba, Jimdar) are still reflected in contemporary Kiranti surnames. Later, the Gorkha kings changed their strategy and sought to control and assimilate the Kiranti region. Kiranti groups were officially incorporated into the caste system (as *matvāli jāt*, 'drinking caste'), and the state encouraged Hindu settlers to move east. They were

⁹There is a scholarly debate as to whether these similarities are Proto-Tibeto-Burman (and got lost in the other languages) or whether the groups showing hierarchical patterns in person marking form a separate branch of Tibeto-Burman (see e.g. van Driem (1991), LaPolla (2001), DeLancey (2010), Jacques (2012), LaPolla (2012)). The debate boils down to the still unsettled question of whether Proto-Tibeto-Burman had person marking morphology or not, and it will probably only be settled once more data on Tibeto-Burman languages are available.

¹⁰To provide a culinary example: fermented soybeans (*kinama* in Yakkha) are an integral part of the Kiranti cuisine. While this dish is not widely cherished outside the Kiranti sphere in Nepal, it is widespread in Northeast India (e.g. in Nagaland), and also known from Thailand, Burma, Korea and Japan (Tamang 2010).

¹¹Gorkha is a district in the Western Development Region of Nepal.

allowed to take control of land previously held by Kiranti people, thus systematically undermining the *kipāt* system. Brahmanic values became more influential, Nepali was propagated as the national language and attempts to express and preserve one's ethnic identity were suppressed as threats to the nation state. On an everyday level, obviously some expression of 'Kiranti-ness' must have continued, because distinct Kiranti cultural practices are still present nowadays (see also the observations made by Russell 2004).

Hindu dominance began to erode only recently, with the 1990 constitution, in which Nepal's multi-ethnic and multi-lingual social reality was officially acknowledged for the first time (Article 4), and more so since the end of the monarchy in 2006. Currently, a new and strong sense of a common Kiranti identity is emerging, which can be attributed to the recent climate of rising ethnic consciousness (over the last two decades). The different Kiranti groups (Limbu, Rai, Yakkha, Sunwar) now share a newly-built temple in Sāno Hättiban in the south of Kathmandu and they celebrate festivals together that were originally celebrated separately, on village level.¹² The mythical king Yalambar has undergone a revival as the legendary founder of the Kiranti dynasty, an iconic figure representing an idealized glorious past. A recently built and newly-renovated statue of Yalambar in the market town Mudhe Sanischare in Sankhuwa Sabha district may illustrate the perspective that Kiranti people themselves have on their origins (see Figure 2.5).¹³

Another iconic figure for Kiranti identity is the 18th-century Limbu scholar Te-ongsi Sirijunga Xin Thebe (Sirijanga) from Sikkim, who is celebrated as the initiator of an ethnic awakening and as the creator of the Limbu script (legendary accounts state that he found and revived the script). He is widely perceived as a martyr for the Kiranti cause, because he was murdered by the Sikkimese Bhutia rulers, allegedly because they perceived his activities as a threat. He is usually depicted tied to a tree and bristling with arrows, for instance in a statue in Dharan (Tinkune), but also in icon-like prints and posters that can be found in people's homes.

¹²Cf. Gaenszle (2015) on the changes that Kiranti culture and religion are currently undergoing now that more and more people live outside the rural homeland.

¹³See e.g. Schlemmer (2003/2004) for a critical assessment of the re-invention of the Kiranti past that came along with the ethnic revival in contemporary Nepal, in particular the widespread booklets and online publications that construct an ancient and glorious Kiranti past that is not grounded in historical evidence. Schlemmer notes that such a re-invention of history often originates from a mostly urban middle class that is disconnected from its rural homeland. According to my own observations, with the number of educated people rising in the villages, with roads being built and more people regularly commuting between cities and their villages, ethnic self-awareness is increasing also in the rural areas.



Figure 2.5: The statue of the mythical Kiranti king Yalambar in Mudhe Sanischare

2.2.2 The Yakkha

2.2.2.1 Ethnic affiliation

Within Kiranti, the largest subgroups are the Rai and the Limbu. While the Limbu speak a few very closely related languages, the term Rai is a broad category that subsumes at least 20 linguistically and ethnically distinct communities.

The Yakkha perceive themselves as closest to the Limbu culturally and linguistically (see also Russell (1992: 90)). Marriages between Yakkha and Limbu are more common than with members of other Kiranti groups. The closest linguistic relative of Yakkha, however, is not Limbu, but the Belhare language, since Yakkha and Belhare share some innovations and unique features that are not found in any other Kiranti language (cf. §2.3 below). The most likely historical scenario is that the Yakkha have adapted culturally to the Limbu because the latter have been the economically and socially most powerful group in the region.

Formerly, the Yakkha were also known as Rai (Russell 1992: 90).¹⁴ The Yakkha, however, stress that they neither belong to Rai nor to Limbu. In line with this,

¹⁴Russell suggests that the name Rai was used when communicating with outsiders to benefit from the reputation of those Rai in the British Gurkha regiments. In present times, too, when talking about my research outside the Yakkha area, I was frequently confronted with the assumption that the Yakkha are a Rai group.

it is now popular to use *Yakkha* or one's clan name as surnames instead of the formerly used exonymic surnames *Dewan* and *Jimi* that originate in Nepali administrative titles given to local tax collectors by the Gorkha kings.¹⁵ Furthermore, origin myths that are known from many Rai groups, such as the story about Sum-nima and Paruhang or the legends about the orphan hero Khocilipa/Khakculukpa (Ebert 2003a, Gaenszle 2000) are not perceived as native to Yakkha and not widely known.

The nature of the historical link to Belhare, which is spoken near Dhankuta, 50 kilometers to the south of the core Yakkha area, is not known with certainty, but it is worth noting that Dahal (1985: 13,47)¹⁶ mentions that a group of Yakkha families had been integrated into the Athpahariya (Athpare) society. Bickel (1996: 21) notes that the people who speak Belhare are also known as Athpare, and that the two linguistic groups Athpare and Belhare are one group by cultural criteria; their languages being mutually unintelligible, which could be explained by such a migration scenario. This hypothesis is supported by the fact that other Yakkha groups have also migrated out of the Yakkha homeland (cf. §2.1), most probably in search for arable land.

2.2.2.2 Language names

The term 'Yakkha' is simultaneously used as a linguistic and as an ethnic name. Alternative names for the language are *Yakkha Ceʔya* (*ceʔya* meaning 'matter, talk, language') and *Jimi Bhasa*, the exonym used by Nepali speakers. As an ethnonym, the non-indigenous name *Jimi* is sometimes used synonymously with Yakkha. It is also a common surname for Yakkha people, introduced during the Gorkha rule. Titles such as *Dewan* and *Jimdar* (from Persian *jamindār*) were given to individuals and village headmen in the Yakkha area, in order to implement the Gorkha tax system, and they were adopted as surnames because of the power and high social status associated with them. Among the Limbu, the Mughal (Arabic) title *Subba* became a common surname, and among the Khambu, this happened with the title *Rai* (Whelpton 2005: 51).

Apart from these non-indigenous surnames however, ancestral clan names play a vital role in social life and in the ritual sphere (see §2.2.2.5 below).

The first syllable of 'Yakkha' is traceable to the Proto-Kiranti root **rok*, which is the Kiranti autonym and has no cognates outside Kiranti. Cognates are found e.g. in the Puma autonym *rakoŋ* (Bickel et al. 2009), in the Dumi autonym *roʔdi*

¹⁵Cf. Doornenbal (2009: 8) for the same observation in Bantawa.

¹⁶Cited in Russell (1992: 1).

(van Driem 1993b: 413) and in the Limbu autonym *yakthumba* (van Driem 1987: xix). The historical sound change from /r/ to /y/ is typical for Eastern Kiranti, to which Yakkha and Limbu belong. The neighbouring groups Lohorung, Yamphe and Yamphu also call their languages *Yakhaba* (van Driem 1994: 347),¹⁷ but their languages are clearly distinct from Yakkha.¹⁸

The second syllable *kha* might be traced back to the Proto-Tibeto-Burman root **ka* for ‘word, speech’ (Matisoff 2003: 174).

2.2.2.3 Subsistence and economy

The Yakkha are primarily agriculturalists. The main crops are maize (*calon*), rice (*cabhak*), millet (*pange*) and buckwheat (*khori?man*). They also grow soybeans (*cembek/chacek*), lentils (*tuya*), tea (Nepali *ciya*), cucumbers (*wabik*), tomatoes (*wariŋba*), onions (*chepi*), garlic (*maŋkhu*), yams (*khi*), potatoes (*sambakhi*), bananas (*camokla*), Indian leaf mustard (*yaro*), mushrooms (*mun*), and various kinds of greens, pumpkins and gourds. A typical household also has pigs, buffalos, oxen, chickens and goats. Pigs and chickens also feature prominently in the ritual design, as a sacrifice to the ancestors. Other means of subsistence are fishing, hunting and beekeeping.

The Yakkha press mustard oil (*kiwa*), they brew beer (*cuwa*), mostly from millet, and they distill liquor (*chemha*), also from millet. Alcohol is not just a refreshment, but also a medium of social exchange (e.g. in marriages and funerals) and a sacrifice in the ancestral rituals (see also Russell (1992: 124)). A main source of income is the cultivation and trade of cardamom (mostly called *alench*, from Nepali, though the Yakkha term is *cokceru*). Furthermore, various fermented, durable dishes are prepared, most famously *kinama* (fermented soybeans). Traditional agricultural instruments are still used today, because it is impossible to cultivate the terraced fields with machines. Some villages have electric mills to grind the grains, but mostly this is done with grinding stones. According to my observations in Tumok, educated people who have an income as teachers or in other village-level government posts do not necessarily abandon agriculture, but try to maintain both means of subsistence.

Recruitment in the British Gorkha army has long been a source of income in the Kiranti groups in general. In recent decades, labour migrations to Arab countries, to Hong Kong, Singapore and Malaysia has increased. Most households I got to

¹⁷The marker *-ba* has the function of a nominalizer.

¹⁸A folk etymology relates the language name to the lexeme *yaksa* ‘hut, resting place’ (Kongren 2007a: 87). This word is a Tibetan loan (*rgyags-sa*) that is also known in Nepali (Turner 1931).



Figure 2.6: A Yakkha house in Tumok village

know in Tumok received some sort of support from family members working abroad.

2.2.2.4 Material culture

A typical Yakkha house (*paŋ*) is shown in Figure 2.6. Yakkha houses (at least in Tumok) are white, with the lower part of the walls covered in red (a mixture of clay and cowdung). They are typically renovated once a year, before Dasain (the most important Hindu festival in Nepal), although the festival itself is not celebrated in Yakkha society anymore.¹⁹ The houses have blue and red wooden railings and window frames, some of them beautifully carved. Every house has a terrace (*omphu*), in which guests are usually received. The roofs are thatched with straw or covered with tiles (or, as a recent development, tin).

The Yakkha have a rich tradition of processing bamboo (*phabu*). Bamboo products are abundant in all aspects of material culture, from house construction to

¹⁹The festival had been celebrated until recently, albeit, as argued by Russell (2004), with Yakkha-specific modifications. The recent abandonment of the Dasain festival can be understood as part of a broader process of de-Hinduization among the non-Hindu groups in Nepal. Other Hindu customs prevail, such as the question who may eat together, and who may serve food to whom.

manufacturing various kinds of sieves, baskets and the most delicate and tiny purses, combs and needles, as shown in Figure 2.7.

Another craft is weaving mats from straw and maize leaves. Furthermore, fabrics and shawls are produced on looms. The pattern found on traditional Yakkha shawls (*phopma*) is shown in Figure 2.8.



Figure 2.7: Bamboo products: *sigikma* ‘comb’, *kanyon* ‘chicken basket’, *phepi* ‘purse’



Figure 2.8: Yakkha *phopma* (shawl)

2.2.2.5 Social organization and religion

The Yakkha religious sphere and social organization are shaped by the pan-Kiranti tradition that is called *munthum* in Yakkha, in which the ancestors play a major role. The term *munthum* also refers to a body of orally transmitted texts in which the deeds and journeys of the ancestors come alive. Gaenszle (2015) notes that despite differences in ritual systems and practices, this ancestral tradition is shared by all Kiranti groups. The *munthum*:

[...] comprises histories of the origin of the ancestors, beginning with the primal creation of the universe and the emergence of natural and

cultural orders and continuing to the settlement of the ancestral territory. It also concerns the proper means of communicating with ancestors and ritually maintaining the order they have established. The term, then, has an additional meaning: it evokes a way of life predefined by the ancestors, a self-enclosed world rooted in the past. (Gaenszle 2000: 224)

The social order, but also the physical and mental health of individuals, is ultimately related to the ancestors. This is also illustrated by rituals such as *saya pokma* (lit.: ‘raising the head soul’), which is known in Yakkha and in other Kiranti groups. It is undertaken to re-unite individuals, whose well-being is in danger, with the primaeval ancestral order. In her anthropological-psychological study on Lohorung culture, for example, Hardman (2000) notes that the main frame of reference in that culture is one in which:

... the ‘natural’ ancestral order [...], as recorded in their myths, has to be constantly recreated and the unity between nature, the super-human, and the human reaffirmed. Failure to do this would lead to depression, increased sickness, possibly death, and ensuing chaos. In contrast, repetition of ancestral worlds and adherence to ancestral order acts like recharging the cosmos. It brings vitality. (Hardman 2000: 12-3) .

For Yakkha people, the ancestral order is equally important. A key feature of this order is the division of the Yakkha society into clans (called *chon*), which is critical not only in marriage restrictions but also in the ritual sphere. Russell (1992: 201) notes the following clan names in Yakkha (square brackets indicate his transcriptions where deviating from the orthography used in this work): *Linkha*, *Chala* [challa], *Koyonwa* [koyonja], *Khamyahan* [kammien], *Limbukhim* [limbuhim], *Honhonba*, *Kongren*, *Chongren*, *Ma?kruk*, *Ya?yukhim*, *Ta?yum*, *Pubangu*, *Oktuban*, *Somyen*, *Khayakhim* [khayakim], *Herwa*, *Ilumban*, *Tiksala*, *Thampara*, *Ibahan*, *Yuwahan*. In my recorded mythical narratives, I further recorded the clan names *Elaba*, *Hangsewa* and *Huture*.

Apart from these clans, there is another concept called *sametlin* (‘spiritual clan’). There are different *sametlins* for the women and for the men of each clan. Women of one clan may, however, share their spiritual clan with men of another clan. In contrast to clan (*chon*) affinity, the *sametlin* of a woman does not change after marriage. The *sametlins* outside one’s family are not widely known, in contrast to a person’s *chon*. They are only significant in dealing with spirits (*cyan*) (Russell 1992: 166).

Personal names (mostly Indo-Aryan nowadays), are not widely used. It is rather common to address a person by the respective kinship term, or by a teknonym ‘X’s father’ or ‘X’s mother’.

The ritual specialists responsible for holding the ancestral rituals are called *Manḡanba* in Yakkha. They undertake rituals for each household on occasions like births, marriages and deaths. The task of the *Manḡanbas* is to maintain the ancestral order and good relations with the spirit world (there are several potentially dangerous spirits such as *soghek* - ghosts of people who have died an unnatural death). Other religious practitioners are *chamwas*, *bijuwas* (a Rai term), *phedanbas* (a Limbu term), *dhamis* (a Nepali term), but I cannot offer a typology of their features and their tasks. Jointly celebrated festivals (above the clan level or even above the village level) are *casowa* (Nepali: *udhauri*) in late autumn and *yuchyan* (Nepali *ubhauri*) in spring (Kongren 2007a: 102ff.).²⁰ On these occasions and also on marriages, people gather in a circle and dance a complicated choreography slowly to the sound of huge drums beaten by some men in the circle (*keilakma* ‘dancing the drum dance’).

The Yakkha society is patrilineal and patrilocal. With regard to marriages, it is important to note that there are two distinct steps taken to incorporate the bride into the clan of her husband. The actual marriage is only the first step, called *mandata*. The second step is called *bagdata*, and is undertaken years, sometimes decades, after the marriage. In the *bagdata*, the husband has to ask his in-laws for their daughter again, and only after this ritual does she become a member of his clan. If the wife dies before the *bagdata* has been asked for, her natal home will undertake the death rites for her.

2.3 Genealogical affiliation

Yakkha is a Sino-Tibetan language, belonging to the Greater Eastern branch of Kiranti, a group of Tibeto-Burman languages spoken in Eastern Nepal.²¹ Beyond this basic classification, the question of how to group Kiranti languages with other Sino-Tibetan languages is still a controversial issue, as in general, subgrouping in the large and incredibly diverse Sino-Tibetan language family has proven to be

²⁰Russell (1992) in his ethnological study does not mention these festivals, so their names and celebrating them this way might be a relatively new development.

²¹Although not undisputed, it is assumed by many scholars that Sino-Tibetan can be divided into a Sinitic and a Tibeto-Burman branch, the latter containing at least 300 languages (Bradley 1997, Matisoff 2003).

rather difficult (see e.g. Hyslop 2011: Ch.3 for an overview of the different models of reconstruction that have been proposed).

Shafer (1974) identified Kiranti (which he called ‘East Himalayish’) as a sub-branch of Bodic, together with three further branches Bodish (including Tibetan and Tamangic languages), West Himalayish and West Central Himalayish (including Magar and Chepang). Similarly, Bradley (1997) suggested that the Kiranti languages, together with Magaric and Newaric languages, form a sub-branch ‘Himalayish’.

A different view is entertained by LaPolla (2003), who includes Kiranti in a group he calls Rung (including, most importantly, the rGyalrongic languages, the Dulong languages, the Kiranti languages, Kham, and the West Himalayan languages Kinauri and Almora), on the basis of shared person marking morphology and a reflexive/middle suffix **-si* (except for rGyalrong). What makes any classification even harder is that not even the question of the antiquity of person marking in Tibeto-Burman has been settled yet (see e.g. DeLancey (2010), Jacques (2012) who argue that such a system can be reconstructed, and LaPolla (2001; 2012), who argues that agreement marking systems in Tibeto-Burman languages are independent innovations).

Kiranti languages can be grouped into a Western and a Central-Eastern branch (with a Central and a Greater Eastern sub-branch), as shown in Figure 2.9 (from Bickel 2008). Central-Eastern Kiranti is characterized by a loss of voiced initials by merging voiceless and voiced initials (Michailovsky 1994). Voiced stops with phonemic value rarely occur, though voiced allophones are possible, as a result of post-nasal and intervocalic voicing, for instance in Yakkha and in Athpare (Ebert 2003c: 505).

Yakkha undoubtedly belongs to the Greater Eastern branch. Distinctive features of Greater Eastern Kiranti languages are the change of pre-glottalized stops into aspirated stops (or zero, in the case of **/ʔt/*; see further below): **/ʔts/* > */ts^h/*, **/ʔp/* > */ph/*, **/ʔk/* > */kh/* (see Table 2.1 for comparative data).²² The Greater Eastern branch splits into Upper Arun (Lohorung, Yamphu and Mewahang) and Eastern Kiranti, to which Yakkha belongs. Eastern Kiranti is characterized by the change of initial **/r/* and **/R/* into */y/*.

Within Eastern Kiranti there are two groups, the various Limbu dialects on the one hand and the so-called Greater Yakkha group, with Chintang, Belhare, Athpare, Chiling and Yakkha, on the other hand. Some languages of the Greater Yakkha branch are characterized by loss of the aspirated coronal stop; compare

²²The table is based on data from van Driem (1993b; 1987), Bickel et al. (2009), Kongren (2007b) and my own data.

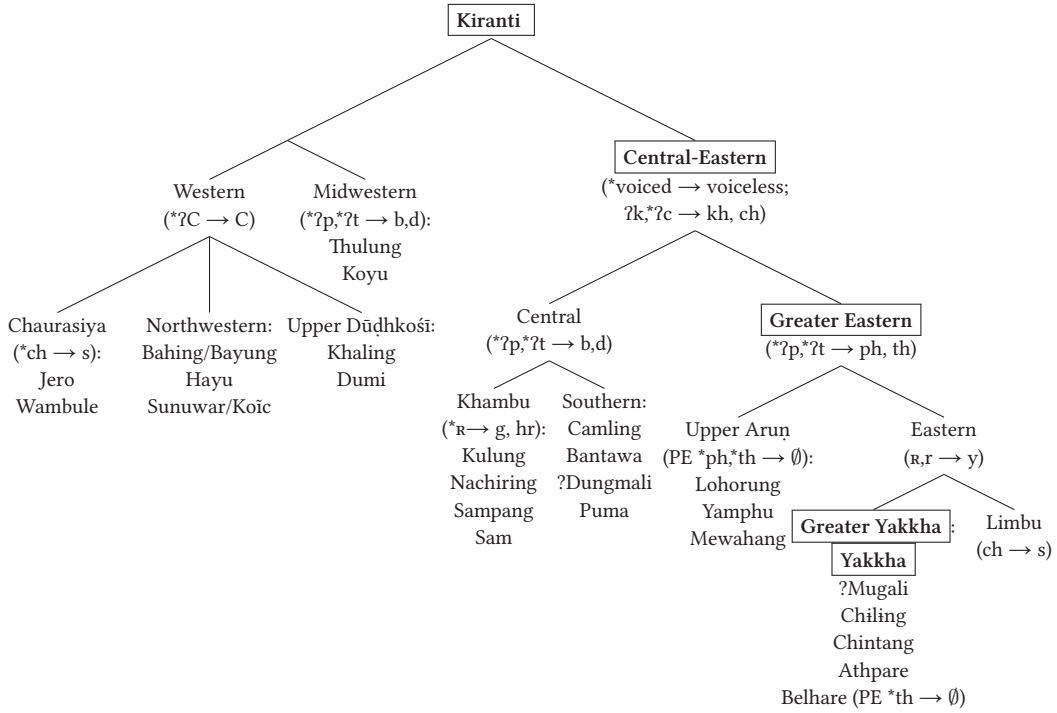


Figure 2.9: Kiranti subgrouping, after Bickel (2008)

e.g. Limbu *thun* ‘drink’ with Yakkha (and Belhare) *uŋ* (Bickel 1997a). Furthermore, the aspirated affricate /ts^h/ (see above) has undergone a further change to /s/ in Limbu; compare e.g. Limbu *sarumma* with Yakkha *chalumma* ‘second-born girl’ (for further examples see Table 2.1).

Rhotic consonants, although they do not occur word-initially in Yakkha, are found word-internally. The claim made by van Driem (1990), that [l] and [r] have a complementary distribution and are thus allophones in Eastern Kiranti cannot be confirmed for Yakkha: both sounds occur in similar environments word-internally (cf. Table 3.6 on page 49), and no environment was found in which [l] and [r] show allophonic variation in Yakkha (see also §3.1.3.4). Thus, although finding ‘proper’ minimal pairs for /l/ and /r/ is difficult, /r/ is a phoneme in Yakkha.

Based on a comparison of the verbal person marking paradigm, the closest relative of Yakkha within the Greater Yakkha branch is Belhare. The two languages exclusively share the following markers: a suffix *-ka* ~ *-ga* indexing second person arguments (any role), and an underspecified nasal prefix *N-* indexing third person plural S and A (3>2.sg and 3pl>3) in Yakkha, and 3nsg.S and 3>2 in Belhare (Bickel 2003: 551).

PROTO-KIRANTI	DUMI (WESTERN)	PUMA (CENTRAL)	YAKKHA (EASTERN)	LIMBU (EASTERN)	GLOSS
*/d/	de:n	ten	ten	tɛn	‘village’
*/j/	ju	ca	ca	ca	‘eat’
*/b/	bhi?i	poon	pik	pit	‘cow’
*/r/	rep	rep	ep	yep	‘stand’
*/r/	roʔdi	roduŋ	yakthuŋ	yak	‘Kiranti’ (autonym)
*/R/	rim	rum	yum	yum	‘salt’
*/ch/		chapd-	chep	sap	‘write’
*/ʔc/		chakd	chekt	sak	‘close’
*/ʔp/	puŋ	buŋ	phuŋ	phuŋ	‘flower’
*/ʔt/	tiŋ	duŋ	uŋ	thuŋ	‘drink’
*/ʔt/		dok	ak	thak	‘loom’

Table 2.1: Examples of Kiranti sound correspondences

2.4 Sociolinguistic context

2.4.1 Dialectal variation

The variety documented here is spoken in Tumok village and surrounding areas, e.g. in Salle. No detailed dialectal study has been undertaken yet for Yakkha. Based on phonological differences and distinct exclamative words, I tentatively propose three further dialects: one spoken in the area around Ankhinbhuin (Angbura, Hombong, Phakling), one spoken in the area around Dandagaun and one spoken towards the north, in Kingring and Kharang villages.

Table 2.2 illustrates dialectal differences. The Kharang dialect is different from the other dialects, for instance, in having a second person possessive marker *i-* instead of the unspecified nasal prefix that is found elsewhere, and in having a clause-final exclamative particle *ikhok*. Apart from this, I do not have data on this dialect.

Yakkha has a general phonological rule of voicing consonants in post-nasal and intervocalic position. The rule has different domains of application across the dialects: in Tumok and in Dandagaun, it does not apply to aspirated consonants, while in Ankhinbhuin it applies to both aspirated and unaspirated consonants. Furthermore, I noticed that in Dandagaun, /o/ gets raised to /u/, at least in some lexemes. In the Tumok dialect, the person marker for first person acting on second is *-nen*, while in the Ankhinbhuin dialect it is *-nan* (cf. also the data from Omruwa (Angbura) in van Driem (1994)). In Dandagaun and Ankhinbhuin hon-

TUMOK	DANDAGAUN	ANKHINBHUI	KHARANG	GLOSS
<i>mma</i>	<i>mma</i>	<i>mma</i>	<i>ima</i>	‘your mother’
<i>nninga</i>	<i>nninga</i>	<i>nninga</i>	<i>ininga</i>	‘your’
<i>i ~ ina ~ iha</i>	<i>i ~ ina ~ iha</i>	<i>i ~ ina ~ iha</i>	<i>iruk</i>	‘what’
<i>cokma</i>	<i>cukma</i>	<i>cokma</i>	(no data)	‘do, make’
<i>ŋkhya(ci)</i>	<i>ŋkhya(ci)</i>	<i>ŋghya(ci)</i>	(no data)	‘they went’
<i>mphopma</i>	<i>mphopma</i>	<i>mbhopma</i>	(no data)	‘your shawl’
<i>piʔnenna</i>	<i>piʔnenna</i>	<i>piʔnanna</i>	(no data)	‘I gave it to you’
<i>coeba</i>	<i>cama leŋniba</i>	<i>cama leŋniba</i>	(no data)	‘Please eat.’
<i>haʔlo</i>	(no data)	<i>khoʔo ~ kho</i>	<i>ikhok</i>	(exclamative particle)
<i>=pa</i>	<i>=pa</i>	<i>=aŋ</i>	(no data)	(emphatic particle)

Table 2.2: Dialectal variation within the Yakkha region

orific imperative forms calqued upon Nepali are used, while in Tumok, this is not common. I have no data on the varieties spoken in the south of Dhankuta district, in Namsaling in Ilam district and India.

In Marek VDC in Dhankuta (Marek, Ghorlikharka, Jitpur, Andrung, Magwa, Saldang villages), a variety is spoken that is so different from the other Yakkha varieties (as perceived by the speakers of Yakkha, too) that it cannot be called a dialect of Yakkha any more. The linguistic differences notwithstanding, the speakers are perceived as belonging to the Yakkha group on ethnic grounds. The language is called Lumba-Yakkha in the Ethnologue (ISO 639-3: *luu*).²³ I have not heard this designation in Tumok, the language was usually referred to as *māreki bhāsā* (Nepali; ‘the language from Marek’). The Marek variety has, for instance, undergone the sound change from /ch/ to /s/ that is also known from Limbu. Crucially, the pronominal paradigm and the verbal inflection are different from Yakkha, for instance the second person prefix *a-* (otherwise known from Athpare and Chintang, see Ebert (1997), Bickel et al. (2007a)) instead of the Yakkha suffix *-ka*. Table 2.3 provides some exemplary data collected in 2010 with a speaker from Marek, but no detailed study has been undertaken yet.

2.4.2 Endangerment

According to the Nepali census of 2001 (Central Bureau of Statistics 2001) and the UNESCO Working Paper No. 7 (Toba et al. 2005) there are 14.648 native speak-

²³ethnologue.com, accessed on Dec. 20 2013

MAREK	TUMOK	GLOSS
<i>hoʔli</i>	<i>imin</i>	‘how’
<i>pisa</i>	<i>picha</i>	‘child’
<i>seŋma</i>	<i>chimma</i>	‘to ask’
<i>hima</i>	<i>i ~ ina ~ iha</i>	‘what’
<i>mahuma</i>	<i>maghyam</i>	‘old woman’
<i>pahuba</i>	<i>paghyam</i>	‘old man’
<i>nhandi</i>	<i>khaʔla</i>	‘like this’
<i>aŋga</i>	<i>ka</i>	‘I’
<i>aŋciŋ</i>	<i>kanciŋ</i>	‘we’ (du)
<i>aŋniŋ</i>	<i>kaniŋ</i>	‘we’ (pl)
<i>ŋkhan</i>	<i>nda</i>	‘you’ (sg)
<i>habe</i>	<i>heʔne</i>	‘where’
<i>hannalam</i>	<i>heʔnhaŋ</i>	‘where from’
<i>akhaʔneʔna</i>	<i>khemekana</i>	‘you go’
<i>=na</i>	<i>=na</i>	(nominalizer)
<i>-ma</i>	<i>-ma</i>	(infinitive marker)

Table 2.3: Marek data in comparison with Tumok data

ers out of about 17.000 ethnic Yakkha. The number of native speakers makes up 0.06 per cent of the Nepalese population. This census, however, seems highly optimistic to me, since Yakkha is barely spoken in half of the Yakkha area, and even where it is spoken, the youngest generation (below 20 years of age) does not commonly use Yakkha, even though they might have a passive command of the language. Specific domains such as ritual, mythological and traditional ecological knowledge are known only by a few (usually) elderly people. I did not find any monolingual Yakkha speakers; all speakers are at least bilingual with Nepali,²⁴ and proficiency in other neighbouring languages such as Bantawa and Limbu is also common.

One reason why Yakkha speakers shift to Nepali is the already mentioned migration outward for economic and educational reasons, but there are also whole villages inside the homeland that have switched to Nepali. For instance, while Yakkha is still vividly spoken in Tumok, it is difficult to find speakers in the neighbouring villages Mamling, Waleng and in the old garrison town Chainpur (a former center for trade in the region). Most speakers of Yakkha are found in the south of the Yakkha region.

A well-known reason for this development is the low prestige that indigenous languages have long had compared to Nepali. Since the creation of the Nepali nation state in the eighteenth century under the rule of King Pṛthvī Nārāyaṇ Śāha (1723-1775), Nepali has been propagated as the national language, and people have not been encouraged to speak other languages. Much damage was also done under the Panchayat System (1961 – 1990), where the use of indigenous languages was actively discouraged under the policy of “One Nation, One Language” (Toba et al. 2005: 20).

Language shift is complex and can be understood on both macro and interactional levels of analysis. In the Yakkha region, education beyond the primary school level is available exclusively in Nepali or English.²⁵ At the primary level, Yakkha language classes have been introduced in a number of schools recently

²⁴The official language in Nepal is the Indo-Aryan language Nepali. It is used in official communication, in commerce and in education. Since the constitution of 1990 which followed the first *Jana Andolan* (People’s uprising), all languages spoken as mother tongues in Nepal are considered national languages, which grants the speakers the right to be educated in their mother tongue (Turin 2007). This is, however, hard to implement, given that more than 100 languages are spoken in the country.

²⁵This is also reflected in the negative correlation between the education level and the number of Yakkha students. According to the 2001 census the number of Yakkha students beyond the primary level was 6915, the number of those who have passed S.L.C. was 878 and the number of those with a degree was 89 in 2001 (Central Bureau of Statistics 2001).

(starting in 2009), but Yakkha is not the medium of instruction in other subjects. Yakkha people are not represented in the government beyond village level (Central Bureau of Statistics 2001). Even in the villages, official posts in education and administration are still overwhelmingly held by people from non-indigenous backgrounds, simply because there are not enough Yakkha people who could work in these positions. This social and economic bias exerts additional pressure on the speakers of Yakkha, and these dynamics are one of the reasons that Yakkha-speaking parents speak in Nepali to their kids.

Another factor destabilizing the language situation are marriages with people outside one's own linguistic community, for instance Yakkha-Limbu marriages. Generally, bilingual or multilingual families are of course not problematic; to the contrary, multilingualism is rather the norm world-wide (see also Turin (2007)). But with the additional pressure that comes from Nepali, children from multilingual families nowadays often grow up with Nepali as the only language they speak fluently.

These developments cannot simply be related to a lack of interest in the parents to pass on their language. According to my own observations, the tendency not to speak Yakkha is even present in the children of those people who have a high ethnic awareness and who are engaged in a number of activities towards preserving their language and culture. The tension between preserving one's ethnic and linguistic heritage and participating in modern society is well-known in theoretical approaches to language loss, but it is nevertheless hard to resolve for the affected individuals.

In the past decades, with multi-party democracy having started in 1990, and even more so in the post-monarchy era that has followed the civil war (1996-2006) and the second *Jana Andolan* (People's Uprising) in 2006, activities aiming at the preservation of the indigenous languages and cultures have increased. In the case of Yakkha, for instance, the Kirant Yakkha Chumma (Indigenous Peoples Yakkha Organization) have implemented Yakkha lessons in a few primary schools in the Yakkha region. School books have been completed up to class five already, with the plan to reach class eight. Dictionaries, literary works and even songs and music videos have been created lately by members of the community who feel the urge to do something before it is too late (cf. §1.4). The long-term impact of this welcome development remains to be seen.

To properly assess the endangerment of a language, an in-depth study in its own right would be necessary. The loss of Yakkha in a wide geographic area and in the youngest generation are, however, very clear and alarming signs.

3 Phonology

This chapter deals with the phoneme inventory and phonological and morphophonological rules and processes that are relevant in Yakkha. The orthography used here is explained in §1.2.2. The examples in this chapter, unlike in the other chapters, have two lines representing the Yakkha data: the upper line shows the data after the application of all phonological and morphophonological rules, and the lower line shows the underlying phonemic material with morpheme breaks. The orthography is used in both of these representations, and IPA is only used when it is necessary in the explanations in prose. Section 3.1 presents the phoneme inventory of Yakkha, Section 3.2 treats the syllable structure and Section 3.3 discusses the treatment of loan words, as they nicely illustrate the phonological features of Yakkha. Section 3.4 lays out the conditions by which stress is assigned. The abundant morphophonological processes and their connections to syllable structure, stress and to diachronic processes are the topic of Section 3.5.

3.1 Phoneme inventory and allophonic rules

3.1.1 Vowel phonemes

Yakkha has only five basic vowels; it has two close vowels, the front /i/ and the back /u/, two close-mid vowels, the front /e/ and the back /o/, and an open vowel /a/. In contrast to other Kiranti languages, there are no central vowels like /ɨ/, /ʌ/ or /ə/. A chart with the vowel inventory is provided in Figure 3.1. In addition to these vowels, a front vowel [ɛ] may occur, but only as the contracted form of the diphthong /ai/ (see §3.1.2), not in any other environments. Minimal pairs are provided in Table 3.1. Tone, length or nasal articulation do not constitute phonemic contrasts in Yakkha.

3.1.2 Diphthongs

Given that adjacent vowels are generally avoided in Yakkha, it does not come as a surprise that diphthongs, i.e., adjacent vowels in the same syllable, are rare. The

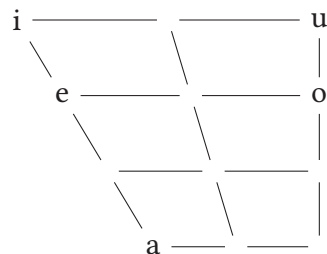


Figure 3.1: Yakkha vowel phonemes

PHONEMES		EXAMPLES			
/e/ vs. /i/	<i>nema</i>	‘lay, sow seed’	<i>nima</i>	‘know, see’	
	<i>tema</i>	‘lean on an angle’	<i>tima</i>	‘put down, invest’	
/e/ vs. /a/	<i>tema</i>	‘lean on an angle’	<i>tama</i>	‘come’	
	<i>yepma</i>	‘stand’	<i>yapma</i>	‘be rough, uncomfortable’	
/o/ vs. /u/	<i>okma</i>	‘shriek’	<i>ukma</i>	‘bring down’	
	<i>hoʔma</i>	‘prick, pierce’	<i>huʔma</i>	‘push, stuff’	
/o/ vs. /a/	<i>thokma</i>	‘spit’	<i>thakma</i>	‘weigh, hand up, send up’	
	<i>hoʔma</i>	‘prick, pierce’	<i>haʔma</i>	‘scrape off/out’	
/u/ vs. /i/	<i>ukma</i>	‘bring down’	<i>ikma</i>	‘chase’	
	<i>umma</i>	‘pull’	<i>imma</i>	‘sleep’	

Table 3.1: Minimal pairs for vowel phonemes

four diphthongs /ai/, /ui/, /oi/ and /au/ were found, occurring marginally, as in *ηhai* (a dish made from fish stomach), *hoi!* ‘enough!’, *uimalaη* ‘steeply downhill’, (*h*)*au* (a sentence-final exclamative particle) and *ambau!* (an exclamative expression indicating that the speaker is impressed by huge or dangerous things). Some speakers pronounce underlying sequences like /ηond-si?-ma/ and /thend-si?-ma/ with nasalized diphthongs, [ηoĩsi?ma] and [theĩsi?ma], respectively (instead of the more common pronunciations [ηonsi?ma] and [thensi?ma]).¹

Most diphthongs have their origin in a multimorphemic or in a multisyllabic environment. The adverb *uimalaη*, for instance, like many other spatial adverbs in Yakkha, is composed of a stem (historically, most probably a noun) and the possessive prefix *u-*. The marginal nature of the diphthongs is confirmed also by the fact that they are found more in names and discourse particles than in lexemes with semantic content, and never in verbal roots. Occasionally, diphthongs are just one stage in a larger process of contraction. Consider the inflected form *wai?na* ‘(he/she/it) exists’, which is also found as [we?na]. Its nonpast semantics and synchronically available contracted forms of verbs suggest that [wai?na] was *[wa.me.na] historically. Table 3.2 provides an exhaustive list of lexemes containing diphthongs from the more than 2400 lexemes in the current lexical database.²

/au/	/oi/	/ui/	/ai/
(<i>h</i>) <i>au</i>	<i>coilikha</i>	<i>uimalaη</i>	<i>ηhai</i>
(EXCLA)	(a village)	‘steeply downhill’	‘fish stomach’
<i>ambau!</i>	<i>hoi!</i>	<i>phakkui</i>	<i>Yaiten</i>
‘holy smoke!’	‘enough!’	‘pig droppings’	(a village)
		<i>waghui</i>	<i>lai</i>
		‘chicken droppings’	(EXCLA)

Table 3.2: Lexemes containing diphthongs

¹The nasalization is exceptional here. Usually, the prosody of Yakkha supports the opposite process, namely the change of nasal vowels to nasal consonants, e.g. in borrowed Nepali lexemes (see §3.3). Nasals may, however, regularly change to nasalization of the preceding vowel in intervocalic environment and before glides and liquids, as in *mē.u.le* ‘without entering’ (/meN-us-le/) and *mē.yok.le* ‘without searching’ (/meN-yok-le/); see §3.5.5.2.

²Archived at the Endangered Languages Archive; <http://www.hrelp.org/archive/>.

3.1.3 Consonant phonemes

Table 3.3 below shows the central and the marginal consonant phonemes of Yakkha. The phones that are not in parentheses clearly have phonemic status; they occur in basic, uninflected stems. The phonemic status of the phones in parentheses is not always straightforward (discussed below).

	BILABIAL	ALVEOLAR	RETROFLEX	PALATAL	VELAR	GLOTTAL
PLOSIVES	p	t	(t)		k	ʔ
ASP.	ph	th	(th)		kh	
VOICED	(b)	(d)	(ɖ)		(g)	
VOICED-ASP.	(bh)	(dh)	(ɖh)		(gh)	
AFFRICATES		ts <c>				
ASP.		ts ^h <ch>				
VOICED		(dz) <j>				
VOICED-ASP.		(dz ^h) <jh>				
FRICATIVES		s				h
NASALS	m	n			ŋ	
NAS. ASP.	(mh)	(nh)			(ŋh)	
RHOTICS		r				
LATERALS		l				
GLIDES	w			y		
GLIDES ASP.	wh					

Table 3.3: Yakkha consonant phonemes

3.1.3.1 The main phonemic distinctions in the consonants

Yakkha distinguishes six places of articulation: bilabial, alveolar, retroflex (or post-alveolar), palatal, velar and glottal. Retroflex plosives most probably made their way into Yakkha via Nepali loan words. They are found only in a few Yakkha lexemes, and no proper minimal pairs could be established. The retroflex series lacks a nasal, too. However, in the few words that are found with retroflex stops, they are robust, and pronouncing these words with an alveolar stop is not an option.

Yakkha fits well into the Eastern branch of Kiranti, for instance in the loss of phonemic contrast between voiced and unvoiced plosives. Generally, plosives, unless they are found in an environment that triggers voicing, are pronounced voiceless. As always, a few exceptions occur that cannot be explained by some

rule. The exact parameters of the voicing rule are laid out in Section 3.5.1. A robust phonemic contrast is that between aspirated and unaspirated consonants, found in the plosives (except for the glottal stop), the affricate and the bilabial glide /w/. Aspiration of a stem-initial consonant, historically a morphological means to increase the transitivity in Kiranti (Michailovsky 1994), has become purely phonemic in Yakkha. The aspirated plosives have a strong fricative component. Three nasals are distinguished by their place of articulation; bilabial /m/, alveolar /n/ and velar /ŋ/. Yakkha has two fricatives, /s/ and /h/, and two liquids, /l/ and /r/. The rhotic does not occur word-initially. Historically, in word-initial position, */r/ has changed to the palatal glide /y/ (see also Table 2.1 in Chapter 2).³ The distribution of the rhotic consonant deserves a closer look, also in the perspective of other Eastern Kiranti languages (see §3.1.3.4 below).

Table 3.4 provides minimal pairs for the basic consonant phonemes, mostly from verbal stems or citation forms.

3.1.3.2 Marginal consonant phonemes

Several of the phonemes occur only marginally, either in Nepali loan words, or in just a handful of Yakkha lexemes. This basically applies to the already mentioned retroflex plosives and to all voiced obstruents, as voicing is generally not distinctive in Yakkha.⁴ Some sounds are never found in uninflected lexemes; they only emerge as the result of some morphophonological processes that are triggered by the concatenation of morphemes with certain phonological features. Voiced-aspirated consonants and the aspirated nasals [m^h], [n^h] and [ŋ^h] belong to this group. The marginal sounds are included in parentheses in Table 3.3. The reader is referred to Section 3.5 for the details of the various morphophonological processes that lead to marginal phonemes.

3.1.3.3 The phonemic status of the glottal stop

The glottal stop is contrastive, as several minimal pairs in Table 3.4 shows. The glottal stop surfaces only before nasals and laterals, so that one can find minimal pairs like *meŋ.khuʔ.le* ‘without carrying’ and *meŋ.khu.le* ‘without stealing’, or *men.daʔ.le* ‘without bringing’ and *men.da.le* ‘without coming’. However, the

³Furthermore, /y/ may be omitted before /e/ in some lexemes, but this process is subject to considerable individual variation.

⁴There are quasi minimal pairs such as *apaŋ* ‘my house’ and *abaŋ* ‘I came’, but both are inflected words and the difference is that *a-* in *apaŋ* is a prefix, and the rule that is responsible for the voicing of plosives excludes prefixes.

PHONEMES		EXAMPLES		
/k/ vs. /kh/	<i>keʔma</i>	‘come up’	<i>kheʔma</i>	‘go’
	<i>kapma</i>	‘carry along, have’	<i>khapma</i>	‘thatch, cover’
/p/ vs. /ph/	<i>pakna</i>	‘young guy’	<i>phak</i>	‘pig’
	<i>pekma</i>	‘fold’	<i>phekma</i>	‘slap, sweep’
/t/ vs. /th/	<i>tumma</i>	‘understand’	<i>thumma</i>	‘tie’
	<i>tokma</i>	‘get’	<i>thokma</i>	‘hit with horns’
/c/ vs. /ch/	<i>cikma</i>	‘age, ripen’	<i>chikma</i>	‘measure, pluck’
	<i>cimma</i>	‘teach’	<i>chimma</i>	‘ask’
/k/ vs. /ʔ/	<i>okma</i>	‘shriek’	<i>oʔma</i>	‘be visible’
/t/ vs. /ʔ/	<i>-met</i>	‘CAUS’	<i>-meʔ</i>	‘NPST’
/p/ vs. /ʔ/	<i>opma</i>	‘consume slowly’	<i>oʔma</i>	‘be visible’
/t/ vs. /r/	<i>ot</i>	‘be visible’ (stem)	<i>or</i>	‘peel off’
/l/ vs. /r/	<i>khelek</i>	‘ant’	<i>kherek</i>	‘hither’
/y/ vs. /w/	<i>yapma</i>	‘be uncomfortable’	<i>wapma</i>	‘paw, scrabble’
	<i>yamma</i>	‘disturb’	<i>wamma</i>	‘attack, pounce’
/y/ vs. /l/	<i>yapma</i>	‘be uncomfortable’	<i>lapma</i>	‘accuse, blame’
/w/ vs. /wh/	<i>wapma</i>	‘paw, scrabble’	<i>whapma</i>	‘wash clothes’
	<i>waŋma</i>	‘curve, bend’	<i>whaŋma</i>	‘boil’
/s/ vs. /h/	<i>sima</i>	‘die’	<i>hima</i>	‘spread’
	<i>somma</i>	‘stroke gently’	<i>homma</i>	‘fit into’
/k/ vs. /ŋ/	<i>pekma</i>	‘break’	<i>peŋma</i>	‘peel’
	<i>okma</i>	‘shriek’	<i>oŋma</i>	‘attack’
/ŋ/ vs. /m/	<i>toŋma</i>	‘agree’	<i>tomma</i>	‘place vertically’
	<i>tuŋma</i>	‘pour’	<i>tumma</i>	‘understand’
/ŋ/ vs. /n/	<i>=ŋa</i>	(ERG)	<i>=na</i>	(NMLZ.SG)
/m/ vs. /n/	<i>makma</i>	‘burn’	<i>nakma</i>	‘beg, ask’
	<i>miʔma</i>	‘think, remember’	<i>niʔma</i>	‘count, consider’

Table 3.4: Minimal pairs for consonants

glottal stop can also be the result of a phonological operation. Unaspirated stops, especially /t/, tend to get neutralized to [ʔ] syllable-finally (aspirated stops to not occur in this position). The glottal stop is also prothesized to vowel-initial words to maximize the onset. In certain grammatical markers, the glottal stop may also be epenthized at the end of the syllable, when it is followed by nasal consonants or glides (see (1)). This may happen only when the syllable is stressed, but the conditions for this epenthesis are not fully understood yet. It never occurs at the end of a word (if ‘word’ is defined by the domain to which stress is assigned).

- (1) a. *tu.mok.peʔ.na* *ma.mu*
 /tumok=pe=na mamu/
 Tumok=LOC=NMLZ.SG girl
 ‘the girl from Tumok’
- b. *men* *baʔ.lo!*
 /men pa=lo/
 COP.NEG EMPH=EXCLA
 ‘Of course not!’

The glottal stop is less consonant-like than the other plosives. In certain environments, stems that end in a glottal stop may behave identically to stems consisting of open syllables (CV). For instance, if the stem vowel /e/ or /i/ is followed by a vocalic suffix like *-a* (marking past or imperative), it changes into a glide [j] and becomes part of the onset (written <y>). If the stem vowel is a back vowel, a glide [j] is inserted between stem and suffixes. If open or /ʔ/-final stems are followed by the suffix sequence *-a-u*, this sequence of suffixes is not overtly realized. Examples of these processes are provided in Table 3.5, contrasted with the behavior of stems with open syllables and stems that end in /p/, /t/ or /k/. The first column shows the underlying stem, the second column provides the citation form and the gloss, the third column shows the behavior before /l/, by means of the forms of the negative converb. The fourth and the fifth column show the behavior before vowels, by means of intransitive 3.SG past forms (in *-a*),⁵ and transitive 3SG>3SG past forms (in *-a-u*).⁶

To wrap up, the intervocalic environment distinguishes /ʔ/-final stems from stems that end in /p/, /t/ or /k/, while the infinitive and the environment before /l/ distinguishes /ʔ/-final stems from open stems.

⁵Or detransitivized, depending on the original valency of the stem.

⁶The verb *cama* ‘eat’ is the only transitive verb that has an open stem in /a/. It is exceptional in having ablaut. Open stems are rare, and not all of them are found among both transitive and intransitive verbs, so that some fields of the table cannot be filled.

3 Phonology

The glottal stop at the end of verbal stems can be reconstructed to */t/, in comparison with other Eastern Kiranti languages (cf. Section 8.1 on the structure of the verbal stems).

STEM	CITATION FORM	/_-l (NEG.CVB)	/_-a (3SG.PST)	/_-a-u (3SG>3SG.PST)
/ʔ/-final stems				
/khuʔ/	<i>khuʔma</i> ‘carry’	<i>meŋ.khuʔ.le</i>	<i>khu.ya.na</i>	<i>khu.na</i>
/waʔ/	<i>waʔma</i> ‘wear, put on’	<i>mē.waʔ.le</i>	<i>wa.ya.na</i>	<i>wa.na</i>
/soʔ/	<i>soʔma</i> ‘look’	<i>men.soʔ.le</i>	<i>so.ya.na</i>	<i>so.na</i>
/kheʔ/	<i>kheʔma</i> ‘go’	<i>meŋ.kheʔ.le</i>	<i>khya.na</i>	-
/piʔ/	<i>piʔma</i> ‘give’	<i>mem.biʔ.le</i>	<i>pya.na</i>	<i>pi.na</i>
V-final stems				
/ca/	<i>cama</i> ‘eat’	<i>men.ja.le</i>	<i>ca.ya.na</i>	<i>co.na</i>
/a/	<i>ama</i> ‘descend’	<i>mē.a.le</i>	<i>a.ya.na</i>	-
/u/	<i>uma</i> ‘enter’	<i>mē.u.le</i>	<i>u.ya.na</i>	-
/si/	<i>sima</i> ‘die’	<i>men.si.le</i>	<i>sya.na</i>	-
/p/-, /t/-, /k/-final stems				
/lap/	<i>lapma</i> ‘seize, catch’	<i>mē.lap.le</i>	<i>la.ba.na</i>	<i>la.bu.na</i>
/yok/	<i>yokma</i> ‘search’	<i>mē.yok.le</i>	<i>yo.ga.na</i>	<i>yo.gu.na</i>
/phat/	<i>phaʔma</i> ‘help’	<i>mem.phat.le</i> ~ <i>mem.phaʔ.le</i>	<i>pha.ta.na</i>	<i>pha.tu.na</i>

Table 3.5: The glottal stop stem-finally, compared to vowels and other plosives

3.1.3.4 The status of /r/ in Yakkha and in Eastern Kiranti perspective

The rhotic /r/ does not occur word-initially in genuine Yakkha lexemes, due to the typical Eastern Kiranti sound change from */r/ to /y/ in word-initial position. There are words like *lok* ‘anger’ and *yok* ‘place’, but no words starting with /r/.⁷ It can, however, occasionally be found in complex onsets, and syllable-initially in intervocalic environment. Table 3.6 shows that /r/ and /l/ can be found in very

⁷There are a few exceptions, such as the ritual bipartite *raji-raŋma* which means ‘wealth of land’. It might be a word that preserved an archaic phonological structure, or a loan (*rājya* means ‘kingdom’ in Nepali). Both options are possible and attested for the ritual register (the *Munthum*) of other Kiranti languages (Gaenszle et al. 2011).

/r/	/l/
<i>khorek</i> ‘bowl’	<i>ulippa</i> ‘old’
<i>phi?waru</i> a kind of bird (Nep.: <i>koṭerā</i>)	<i>chalumma</i> ‘second-born daughter’
<i>tarokma</i> ‘start’	<i>caloŋ</i> ‘maize’
<i>kherek</i> ‘this side, hither’	<i>khelek</i> ‘ant’
<i>caram</i> ‘yard’	<i>sala</i> ‘talk’
<i>khiriri</i> ‘spinning round very fast’	<i>philili</i> ‘jittering’
<i>phimphruwa</i> ‘soap berry’ (Nep.: <i>riṭṭhā</i>)	<i>aphlum</i> ‘hearth stones’
<i>hobrek</i> ‘rotten’	<i>phoplek</i> ‘[pouring] at once’
<i>ṭoprak</i> ‘leaf plate’	<i>khesapla</i> ‘a kind of fig tree’

Table 3.6: The phonemes /r/ and /l/ in similar environments

similar environments, even though proper minimal pairs are rare. In some instances, intervocalic /r/ can be traced back to historical */t/, as in the complex predicates in (2).

- (2) a. *pe.sa.ra.ya.na*
 fly[3SG]-PST-V2.COME-PST=NMLZ.SG
 ‘It came flying to me.’
 b. *phuŋ chik.tu.ra=na*
 flower pluck-3.P-V2.BRING-PST-3.P=NMLZ.SG
 ‘She plucked and brought a flower.’

According to van Driem (1990), [l] and [r] have a complementary distribution in Eastern Kiranti: [l] occurs word-initially and syllable-initially after stops, and [r] occurs between vowels and as the second component of complex onsets. The complementary distribution of [l] and [r] is a consequence of the general Eastern Kiranti sound change from */r/ to /y/ in word-initial position, which left /r/ only in word-internal position.⁸ It is plausible that [l] and [r], now partly in complementary distribution, were reanalyzed as allophones as a consequence of this sound change. Van Driem’s claim, however, could only partly be confirmed for Yakkha. In contrast to (Phedappe) Limbu (van Driem 1987, Schiering et al. 2010: 688ff) and other languages from the Greater Eastern branch of Kiranti such as Lohorung (van Driem 1990: 85), the rhotic is not found as allophone of /l/ in in-

⁸The sound change is evident from correspondences such as Yakkha and Limbu *yum* ‘salt’ and its non-Eastern cognates, e.g. *rum* in Puma (Central Kiranti, Bickel et al. 2009: 393) or *rim* in Dumi (Western Kiranti, van Driem 1993b: 412).

tervocalic environment in Yakkha (compare the term for ‘second-born daughter’, *chalumma* (Yakkha) and *sarumma* (Limbu), Limbu data from van Driem & Davids (1985: 131)). Allophonic variation between /l/ and /r/ was not found for any environment in Yakkha. For instance, the negative converb *me(n)...le* does not have an allomorph [me(n)...re] after CV-stems in Yakkha, in contrast to the same converb in Limbu. Furthermore, the question whether C + /r/ are syllabified as .Cr and C + /l/ as C.l could not be answered satisfactorily for Yakkha, based on auditory and phonological evidence. For instance, /r/ as well as /l/ may trigger voicing in a preceding consonant, without any obvious regularity (see Table 3.6).

To sum up, there is more than sufficient evidence for the phonemic status of /r/ in Yakkha.⁹

It is possibly a rather new development that the rhotic may also appear in syllable-final position. As shown in (3), it may occur at the end of verbal stems that historically have a stem-final /t/-augment (cf. §8.1). This syllabification is only licensed when the following syllable starts in /w/. When the stem is followed by vowel material, /r/ will be syllabified as onset. Another process leading to syllable-final rhotics is metathesis. It is found in free allophonic variation, as in *tepruki* ~ *tepurki* ‘flea’ or *makhruna* ~ *makhurna* ‘black’.

- (3) a. *thur-wa-ŋ=na*
 sew-NPST[3.P]-1SG.A=NMLZ.SG
 ‘I will sew it.’
 b. *nir-wa-ŋ-ci-ŋ=ha*
 count-NPST-1SG.A-3NSG.P-1SG.A=NMLZ.SG
 ‘I will count them.’

3.1.3.5 Aspirated voiced consonants

Aspirated voiced plosives can result from the voicing rule (cf. Section 3.5), or from sequences of morphemes with consonants followed by /h/, as in (4a). In this way, aspirated consonants can be created that are not found in simple lexemes; they

⁹The postulation of a phoneme /r/ has implications for a possible orthography for future Yakkha materials. One of the current local orthographies, used e.g. in Kongren (2007b) and in several school books (Jimi et al. 2009), conflated /r/ and /l/ under the grapheme <र>, the Devanagari letter for <l>. This turned out to be very impractical for the readers. It is not only too much abstracted away from the actual pronunciation, but also not justified by the phonological facts. It is my recommendation to change this in future publications, i.e. to write <र> (r) when a sound is pronounced as a rhotic and <ल> (l) when a sound is pronounced as a lateral.

always involve a morpheme boundary, at least diachronically.¹⁰ Another process leading to aspirated voiced consonants is vowel elision. If there is an underlying multimorphemic sequence of the shape /C-V-h-V/, the first vowel gets elided and /h/ surfaces as aspiration of the first consonant (see (4b)).

- (4) a. *khe.i.ŋha*
 /kheʔ-i-ŋ=ha/
 go[PST]-1PL-EXCL=NMLZ.NSG
 ‘We went’
 b. *ca.mha.ci*
 /ca-ma=ha=ci/
 eat-INF[DEONT]=NMLZ.NSG=NSG
 ‘They have to be eaten.’

The environment that is required for the vowel elision is also provided by other forms of the verbal inflectional paradigm. In (5), the underlying sequence /-ka=ha/ ([-gaha] due to intervocalic voicing) licenses the elision of the preceding vowel, which results in the realization of /h/ as aspiration of [g].

- (5) a. *tun.di.wa.gha*
 /tund-i-wa-ka=ha/
 understand[3A]-2.P-NPST-2=NMLZ.NSG
 ‘He/she/they understand(s) you.’
 b. *tum.me.cu.ci.gha*
 /tund-meʔ-ci-u-ci-ka=ha/
 understand-NPST-DU.A-3.P-3NSG.P-2=NMLZ.NSG
 ‘You (dual) understand them.’

3.2 Syllable structure

This section describes the parameters for the possible syllable in Yakkha. The structure of the syllable is maximally CCVC, i.e. VC, CV, CCV and CVC are possible as well. If a word-initial syllable starts in a vowel, a glottal stop is prothesized to yield a minimal onset. Syllables with CVV structure occur only in the form of diphthongs (see §3.1.2 above). They are exceedingly rare, and they can generally be traced back to bisyllabic or bimorphemic contexts. Syllables containing diphthongs are always open.

¹⁰ An exception is the word *ŋhai* ‘fish stomach (dish)’, for which no transparent multimorphemic etymology is available.

In a simple onset, any consonant can occur, with the exception of /r/, which got replaced by /y/ historically in Eastern Kiranti.

Among the complex onsets, which do not occur in any word, two sets have to be distinguished. The first set has the general shape CL, where L stands for liquids and glides. In this type of syllable, the first consonant can be a plosive, a fricative, an affricate or a nasal, while the second consonant can only be a liquid (/l/ or /r/) or a glide (/y/ or /w/). Historically, the onsets containing /y/ or /w/ result from contracted CVCV sequences. Some alternations between a monosyllabic and a bisyllabic structure, like *cwa* ~ *cu.wa* ‘beer’, *chwa* ~ *chu.wa* ‘sugarcane’, *nwak* ~ *nu.wak* ‘bird’ and *yaŋcuklik* ~ *yaŋcugulik* ‘ant’ suggest this. Comparison with related languages like Belhare and Chintang provides further evidence for a former bisyllabic structure: Chintang and Belhare have *cuwa* and *cua*, resp., for ‘water’, and Belhare furthermore has *nua* for ‘bird’ (Bickel 1997a, Rai et al. 2011). For Athpare, both bisyllabic and monosyllabic forms are attested (Ebert 1997).

On the other hand, complex onsets are not uncommon in Tibeto-Burman. Word-initially, the status of CL sequences as complex onsets is robust, but word-internally, alternative syllabifications would be theoretically possible. This possibility can be ruled out at least for the clusters involving aspirated plosives, because aspirated plosives may never occur syllable-finally. A segmentation like [kith.rik.pa] or [aph.lum] would violate the restriction on a well-formed syllable coda in Yakkha, so that it has to be [ki.thrik.pa] and [a.phlum] (‘policeman’ and ‘hearth’), respectively. For unaspirated plosives, it is hard to tell how they are syllabified. Not all logically possible onsets occur, and some are only possible in morphologically complex (both inflected and derived) words. Some examples of complex onsets are provided in Table 3.7 and Table 3.8. Onset types not shown in the tables do not occur.

	/l/	/r/
/p/	<i>i.plik</i> ‘twisted’	<i>ca.pra</i> ‘spade’
/ph/	<i>a.phlum</i> ‘trad. hearth’	<i>phim.phru.wa</i> ‘soap berry’
/k/	<i>saklum</i> ‘frustration’	<i>than.kra</i> ‘store for grains’
/kh/	(-)	<i>tu.khruk</i> ‘head’
/s/	(-)	<i>mik.srumba</i> ‘blind person’
/n/	<i>nlu.ya.ha</i> ‘they said’	(-)

Table 3.7: Complex onsets with liquids

/w/	/y/
/p/ (-)	<i>pyaŋ.na</i> ‘he/she gave it to me’
/ph/ <i>tam.phwak</i> ‘hair’	<i>tu.ga.bhyek.sa.na</i> ‘he/she is about to get ill’
/t/ <i>twa</i> ‘forehead’	(-)
/th/ <i>thwaŋ</i> ‘smelly’ (IDEOPH)	(-)
/c/ <i>cwa</i> ‘heart’	<i>cya</i> ‘child’
/ch/ <i>chwa</i> ‘sugarcane’	<i>op.chyaŋ.me</i> ‘firefly’
/k/ (-)	<i>kya</i> ‘Come up!’
/kh/ <i>o.sen.khwak</i> ‘bone’	<i>khya</i> ‘Go!’
/s/ <i>swak</i> ‘secretly’	<i>sya.na</i> ‘He/she died.’
/n/ <i>nwak</i> ‘bird’	<i>(ayupma) nyu.sa.ha</i> ‘I am tired.’

Table 3.8: Complex onsets with glides

The second set of onsets has the shape NC, where N stands for an unspecified nasal and C for any stem-initial consonant. This type of onset is found only when one of the nasal prefixes is attached to a stem, never in monomorphemic syllables, and never in syllables inside a word. The value of the nasal is conditioned by the place of articulation of the following consonant. Based on auditory evidence, I conclude that the nasal is not syllabified. However, as the processes related to prosody or to morphophonology either exclude prefixes from their domain or they apply across syllable boundaries as well, I could not find independent evidence for this claim. The nasal prefixes may have the following morphological content: 3PL.S/A and negation on verbs (see (6a) and (6b)), a second person possessive on nouns (see (6c)), and a distal relation in spatial adverbs and demonstratives (see (6d) and (6e)).

- (6) a. *mbya.gha*
 /N-pi?-a-ka=ha/
 3PL.A-give-PST-2.P=NMLZ.NSG
 ‘They gave it to you.’
- b. *ŋkhyan.na*
 /N-khe?-a-n=na/
 NEG-go[3SG]-PST-NEG=NMLZ.SG
 ‘He did not go.’
- c. *mbaŋ*
 /N-paŋ/
 2SG.POSS-house

- d. *ŋkhaʔ.la*
 /N-khaʔ.la/
 DIST-like_this
 ‘like that’
- e. *nnhe*
 /N-nhe/
 DIST-here
 ‘there’

The coda is restricted to nasals, unaspirated plosives and, rarely, /r/ (cf. 3.1.3.4 above). The plosives are often unreleased or neutralized to [ʔ] in the coda, unless they are at the end of a word. While the glottal stop frequently occurs in syllable codas, it is never found at the end of a phonological word (as defined by the stress domain).

Table 3.9 summarizes the possible syllable in Yakkha. If the form of a morpheme does not agree with the syllable structure, several strategies may apply. If, for instance, a verbal stem ends in two consonants (C-s, C-t), as *chimd* ‘ask’ or *yuks* ‘put’, and a vowel follows the stem in an inflected form, the stem-final consonant becomes the onset of the next syllable (see (7)). If a consonant follows the stem, the final consonant of the stem is deleted (see (8)).

ONSET	NUCLEUS	CODA
any consonant (except /r/)	any	unasp. plosive,
obstruent + liquid, glide	vowel	nasal,
nasal + any consonant (except /r/)		/r/
any consonant (except /r/)	diphthong	

Table 3.9: The syllable

- (7) a. *chim.duŋ.na*
 /chimd-u-ŋ=na/
 ask-3.P[PST]-1SG.A=NMLZ.SG
 ‘I asked him.’
- b. *chim.daŋ*
 /chimd-a-ŋ/
 ask-IMP-1SG.P
 ‘Ask me!’

- (8) a. *chim.nen.na*
 /chimd-nen=na/
 ask-1>2[PST]=NMLZ.SG
 ‘I asked you.’
 b. *men.chim.le*
 /men-chimd-le/
 NEG-ask-CVB
 ‘without asking’

In certain morphological environments and in fast speech, more complex onsets are possible, with the form NCL (nasal-consonant-liquid/glide), but this is restricted to particular inflected verb forms, namely third person plural or negated nonpast forms of verbs with open stems (or with CV? stems) (see (9)). Each part of the onset belongs to another morpheme. The complex cluster is a consequence of the deletion of the stem vowel. This process is further restricted to stems with back vowels (/a/, /u/ and /o/).

- (9) a. *nlwa.na*
 /N-lu?-wa=na/
 3PL.A-tell-NPST[3.P]=NMLZ.SG
 ‘They will tell him.’
 b. *njwa.ɳan.na*
 /N-ca-wa-ɳa-n=na/
 NEG-eat-NPST-1SG.A[3.P]-NEG=NMLZ.SG
 ‘I will not eat it.’

3.3 The phonological treatment of Nepali and English loans

The phonological features of Yakkha are also reflected by the treatment of Nepali and English loans, as shown in Tables 3.10 and 3.11. Several processes may apply to adjust non-native lexemes to Yakkha phonology. Apart from the regular processes discussed below, one can encounter many changes in the vowel qualities, but they cannot be ascribed to any regular sound change.

As adjacent vowels are a marked structure in Yakkha, sequences of vowels, as well as vowels which are separated only by /h/, are typically changed to one vowel. The intervocalic /h/ is, however, not completely lost, but preserved as aspiration of the preceding consonant, shown by the last three examples of Table 3.10. This process happens irrespective of how the words are stressed in Nepali.

Another typical process is the change of nasal vowels to nasal consonants:¹¹ hortative verb forms like *jum* ‘Let’s go!’ or *herum* ‘Let’s have a look!’ seem to have been built in analogy to the shape of Yakkha hortative verb forms, which also end in *-um*, at least in the transitive verbs. The words *thon*, *alenci* and *gumthali* illustrate the same process (and also the change of diphthongs to simple vowels).

Some loans show the neutralization of voiced and voiceless consonants that is typical for Eastern Kiranti, e.g. *tukkhi* (from Nepali *dukha* ‘sorrow, pain’). Probably, such words entered the Yakkha language in an earlier stage of the Nepali-Yakkha contact, when people were not yet bilingual. Nowadays there are many Nepali loans in Yakkha that are pronounced as in Nepali.

The word *duru* (from Nepali *dudh* ‘milk’) shows a strategy to satisfy the constraint against aspirated plosives at the end of the syllable or word (and against aspirated voiced plosives in general).¹²

Another typical process encountered was closing word-final open syllables by /k/. For example, *belā* ‘time’ becomes [belak], *bihāna* ‘morning’ becomes [bhenik] and *duno* ~ *duna* ‘leaf bowl’ becomes [donak] in Yakkha. Words that end in other consonants than /k/ may also be modified to end in /k/, e.g. *churuk* ‘cigarette’, from Nepali *churoṭ*.

Some English loan words, shown in Table 3.11 illustrate that complex codas and voiced codas are not acceptable in Yakkha. Word-initial clusters of fricative and plosive are also marked, and a vowel is prothesized to yield a syllable that corresponds at least to some of the prosodic constraints of Yakkha (but this also happens in the pronunciation of Nepali native speakers). Finally, as Yakkha has no distinctions of length or tenseness of vowels, the difference between e.g. English *sheep* and *ship* is usually not noticed or produced if such words are borrowed. Both words are pronounced with a short [i], that is however slightly more tense than in English *ship*.¹³

The words selected here illustrate how some of the principles of the Yakkha sound system and the phonological rules are applied to non-native material. The Yakkha phonology in borrowed lexemes is not equally prominent among speakers. It depends on many factors, most obviously the proficiency in the donor languages, the time-depth of the borrowing.

¹¹Marginally, nasal vowels may occur in Yakkha, but the environments are highly restricted, and a nasal realization of a vowel is always motivated by an underlying nasal consonant (cf. §3.5).

¹²The use of cow or goat milk or milk products is very rare in Yakkha culture (noted also by Russell 1992: 128ff), and thus, the borrowing of this word is not surprising.

¹³The words displayed in the tables occurred regularly in at least some speaker’s idiolects. Nevertheless, I do not want to make any strong claims about what is borrowed and what is code-switching, as this is not the purpose of my study.

3.3 The phonological treatment of Nepali and English loans

YAKKHA	NEPALI	GLOSS
<i>jum</i>	<i>jā.aũ</i>	‘Let us go.’
<i>herum</i>	<i>he.raũ</i>	‘Let us have a look.’
<i>thon</i>	<i>thāũ</i>	‘place’
<i>gumthali</i>	<i>gaũthali</i>	‘swallow’
<i>alenci</i>	<i>alaīci</i>	‘cardamom’
<i>tuk.khi</i>	<i>dukha</i>	‘sorrow, pain’
<i>du.ru</i>	<i>dudh</i>	‘(animals’) milk’
<i>chen</i>	<i>ca.ʼhĩ</i>	(topic particle)
<i>bhenik</i>	<i>bi.ʼhā.na</i>	‘morning’
<i>bhya</i>	<i>bi.hā</i>	‘wedding’

Table 3.10: Nepali loans in Yakkha

YAKKHA	ENGLISH
<i>ʼroɬ</i>	‘road’
<i>ʼphlim</i>	‘film’
<i>ʼphren</i>	‘friend’
<i>is.ʼtɛp</i>	‘step’
<i>is.ʼkul</i>	‘school’

Table 3.11: English loans in Yakkha

3.4 Stress assignment

This section deals with the rules for stress assignment and the domain to which these rules apply. The rules for stress assignment can be laid out as follows: by default, the first syllable carries main stress. Closed syllables, however, attract stress. If there are closed syllables, the main stress moves to the last closed syllable, as long as it is not the final syllable of a word, demonstrated by the examples in Table 3.12 for nouns,¹⁴ and in (10) for inflected verbal forms. The forms in these examples differ with regard to the position of the last closed syllable in the word, and thus, by the condition that makes the stress move from the first syllable towards the end (but only up to the penultimate syllable). Predicates that consist of more than one verbal stem behave like simple verbs in this respect (see (11)).

Yakkha	gloss
<i>'om.phu</i>	‘verandah’
<i>'kho.rek</i>	‘bowl’
<i>'ca.ram</i>	‘yard’
<i>'ko.ko.mek</i>	‘butterfly’
<i>'ol.lo.bak</i>	‘fast’
<i>'tok.ca.li</i>	‘buttocks’
<i>'yok.yo.rok</i>	‘beyond, a bit further’
<i>'kam.ni.bak</i>	‘friend’
<i>wa.'riŋ.ba</i>	‘tomato’
<i>cu?.'lum.phi</i>	‘stele, stick’
<i>nep.'nep.na</i>	‘short one’
<i>op.'chyaŋ.me</i>	‘firefly’
<i>cik.ci.'geŋ.ba</i>	‘Bilaune tree’

Table 3.12: Default stress

- (10) a. *'tum.me.cu.na*
 /tund-meʔ-ci-u=na/
 understand-NPST-DU.A-3.P=NMLZ.SG
 ‘They (dual) understand him.’

¹⁴Both simple and complex (at least historically) nouns can be found in this table, their etymology does not affect the stress assignment.

- b. *,ndum.men.'cun.na*
 /n-tund-me?-n-ci-u-n=na/
 NEG-understand-NPST-NEG-DU.A-3.P-NEG=NMLZ.SG
 'They (dual) do not understand him.'
- c. *,tum.me?.'nen.na*
 /tund-me?-nen=na/
 understand-NPST-1>2=NMLZ.SG
 'I understand you.'
- (11) a. *'luk.ta.khya.na*
 /lukt-a-khe?-a=na/
 run-PST-V2.GO-PST[3SG]=NMLZ.SG
 'He ran away.'
- b. *luk.ta.'khyan.na*
 /lukt-a-khe?-a-ŋ=na/
 run-PST-V2.GO-PST-1SG=NMLZ.SG
 'I ran away.'

Examples like *'kam.ni.bak* 'friend' show that the stress never moves to the final syllable, even when the syllable is heavy. Patterns where the final syllable is stressed are possible though, because prefixes are not part of the stress domain. In monosyllabic nouns that host a possessive prefix, the stress generally remains on the stem, as in (12).

- (12) a. *a.'paŋ*
 /a-paŋ/
 1SG.POSS-house
 'my house'
- b. *u.'phuŋ*
 /u-phuŋ/
 3SG.POSS-flower
 'his/her flower'

Yakkha has a category of obligatorily possessed nouns, and some of them, mostly kin terms, have undergone lexicalization. They are all monosyllabic. With regard to stress, the prefix is no longer distinguished from the stem, as examples like *'a.mum* 'grandmother', *'a.pum* 'grandfather', *'a.na* 'elder sister', *'a.phu* 'elder brother' show.¹⁵ The words are however not morphologically opaque, as the first person possessive prefix *a-* can still be replaced by other prefixes in a given con-

¹⁵In the domain of kinship, forms with first person singular inflection are also used in default contexts, when no particular possessor is specified. The default possessive prefix for nouns denoting part-whole relations is the third person singular *u-*.

text, and then, the stress pattern changes to the expected one, e.g. *u. 'mum* ‘his grandmother’. An example for lexicalized obligatory possession beyond the domain of kinship is the word *'u.wa* ‘liquid, nectar, water’.

The shift of stress described above occurs only in monosyllabic kin terms. In bisyllabic words, the stress is again on the first syllable of the stem or on the syllable that is closed. Terms like *a. 'nun.cha* ‘younger sibling’ (both sexes) or *a.ŋo. 'tɛŋ.ma* ‘sister-in-law’ illustrate this.

As Yakkha is a predominantly suffixing language, there are not many prefixes that could illustrate the fact that the domain of stress does not include prefixes. Apart from the possessive prefixes, evidence is provided by reduplicated adjectives and adverbs like *pha. 'phap* ‘entangled, messy’ or *son. 'son* ‘slanted, on an angle’. The base for these words are verbal stems, in this case *phaps* ‘entangle, mess up’ and *sos* ‘lie slanted’. Their stress pattern allows the conclusion that this kind of reduplication is a prefixation (for the other morphophonological processes involved cf. Section 3.5).

Clitics generally do not affect stress assignment, since they are attached to the phrase and thus to a unit that is built of words to which stress has already been assigned.¹⁶ Examples are provided in (13) for case clitics and in (14) for discourse-structural clitics.

- (13) a. *'kho.rek.ci*
 /khorek=ci/
 bowl=NSG
 ‘the bowls’
 b. *'taŋ.khyaŋ.bhaŋ*
 /taŋkhyāŋ=phaŋ/
 sky=ABL
 ‘from the sky’
 c. *'kam.ni.bak.ci.nuŋ*
 /kamnibak=ci=nuŋ/
 friend=NSG=COM
 ‘with the friends’
- (14) a. *a. 'yu.bak.se*
 /a-yubak=se/
 1SG.POSS-goods=RESTR

¹⁶The term ‘clitic’ may have two readings: (i) affixes that are categorically unrestricted (represented by the equals sign ‘=’ instead of a hyphen ‘-’), or (ii) phonologically bound words, like demonstratives. The latter are written separately in the orthography used in this work, as they may also appear independently and they have the ability to head phrases.

- ‘only my goods’
 b. *u.ʔkam.ni.bak.ko*
 /u-kamnibak=ko/
 3SG.POSS-friend=TOP
 ‘his friend(, though)’

An exception to this rule is the nominalization in *=na* and *=ha*. These nominalizers may attach to the verbal inflection, in relative clauses, complement clauses or in main clauses (see §13.3). They are categorically unrestricted (i.e., taking not only verbal hosts), and not an obligatory part of the verbal inflection. However, if they attach to the verb, they are part of the stress domain. If this was not the case, stress assignment as in *luk.ta.ʔkhyan.na* ‘I ran away’ would be unexpected, because then the stress would be on the final syllable of the stress domain, which violates the prosodic constraints of Yakkha. The anomalous behavior of the nominalizers is not unexpected in light of the fact that they are becoming reanalyzed from discourse markers to part of the inflectional morphology.¹⁷

It is hard to tell whether there is secondary stress. Even in words with five syllables, like in (14b), no secondary stress could be detected. Secondary stress was clearly audible in compounds such as those shown in Table 3.13. It is found on the first syllable of the second part of the compound, while the main stress remains on the first syllable of the whole compound. Such compounds may override the general restriction against stress on word-final syllables. In inflected verb forms, secondary stress can be found on the verbal stem, e.g. in *ndum.men.cu.ʔjan.na* ‘We (dual) do not understand him’, cf. also examples (10b) and (10c) above.

YAKKHA	GLOSS
<i>ʔko.len, luŋ</i>	‘marble stone’ (‘smooth-stone’)
<i>ʔpi.pi, siŋ</i>	‘straw, pipe’ (‘([redup]suck-wood’)
<i>ʔyo.niŋ, khe.niŋ</i>	‘hither and thither’ (‘while thither-while hither’)
<i>ʔmo.niŋ, to.niŋ</i>	‘up and down’ (‘while down-while up’)
<i>ʔsa.meʔ, choŋ</i>	‘protoclan’ (‘clan-top’)
<i>ʔlim.bu, khim</i>	a clan name, composed of the term for the Limbu ethnic group and a word for ‘house’ in many Kiranti languages

Table 3.13: Stress in compounds

¹⁷For instance, they also show number agreement with verbal arguments, with *=na* indicating singular and *=ha* indicating nonsingular or non-countable reference.

Finally, one exception to the stress rules has to be mentioned. Yakkha has several triplicated ideophonic adverbs, where the first syllable is the base and the second and third syllable rhyme on the vowel, but replace the initial consonant with a liquid, a glide or a coronal stop, e.g. [se.re.'re:] 'drizzling', or [hi.wi.'wi:] 'pleasantly breezy' (cf. §6.4). In addition to the triplication, the vowel of the last syllable is lengthened, and the stress is always on the last syllable in these adverbs.

3.5 Morphophonological processes

This section discusses the various morphophonological processes in Yakkha. The domains to which certain rules and processes apply are not always congruent. The existence of more than one phonological domain and the problems for theoretical approaches that assume a prosodic hierarchy have already been discussed for Limbu, another Eastern Kiranti language (Hildebrandt 2007, Schiering et al. 2010). Yakkha adds further support to challenges for the assumption that domains of prosodic rules are necessarily hierarchically ordered.

The following phonological domains could be identified in Yakkha morphophonology: the rules for stress assignment disregard prefixes and naturally phrasal affixes. In contrast, the vowel harmony establishes a relation between the prefix and the stem only, ignoring the suffixes. The voicing rule has the broadest domain (cf. §3.5.1 below). Furthermore, some rules differentiate between morphologically simple and compound words. The voicing rule and also various repair operations of marked structures like adjacent obstruents are sensitive to morpheme boundaries; the latter, more precisely, to stem boundaries.

Figure 3.2 provides an overview of the different domains to which the morphophonological processes apply.¹⁸ Section 3.5.1 deals with the voicing rule. The prefixation of underspecified nasals is treated in Section 3.5.2. A case of vowel harmony is described in Section 3.5.3. Adjacent vowels are not preferred in Yakkha, and strategies to avoid such undesirable sequences are treated in Section 3.5.4. Section 3.5.5 deals with consonants in intervocalic environments. Section 3.5.6 describes assimilations. The employment of nasals to repair marked sequences of adjacent obstruents as well as adjacent vowels in complex predicates is discussed in Section 3.5.7. Finally, Section 3.5.8 discusses a process of nasal copying which is found in the verbal inflection of many Kiranti languages.

¹⁸The morphological structure of the word is slightly simplified in the table, disregarding complex predicates that consist of more than one verbal stem. Complex predicates are treated identically to simple words by the stress rule and the voicing rule (except for the behavior of /c/).

	prefix	stem(s)	suffixes	clitics
(1)		stress assignment		
(2-a)		voicing/N_		
(2-b)		voicing/V_V		
(3)	vowel harmony			

Figure 3.2: Summary of phonological domains

3.5.1 Voicing

In Yakkha, unaspirated plosives and the affricate are voiced in intervocalic and postnasal environments and before liquids and glides, as schematized in Figure 3.3, where C stands for unaspirated plosives and the affricate, N for nasals and L for liquids and glides. Voicing applies predominantly at morpheme boundaries, but also inside words that, at least synchronically, cannot be split up further into separate morphemes. The rule is illustrated by example (15), with the stem-final /k/ of the verb *yokma* ‘search’, and by (16), with the stem-initial /t/ of the verb *tama* ‘come’.

C.UNVOICED → C.VOICED/N_
C.UNVOICED → C.VOICED/V_V
C.UNVOICED → C.VOICED/_L

Figure 3.3: Voicing rules

- (15) a. *yoknenna*
 /yok-nen=na/
 search-1>2[PST]=NMLZ.SG
 ‘I looked for you.’
 b. *yogu*
 /yok-u/
 search-3.P[IMP]
 ‘Look for it!’
- (16) a. *tame?na*
 /ta-me?=na/
 come[3SG]-NPST=NMLZ.SG
 ‘He will come.’

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- b. *ndamenna*
 /N-ta-me?-n=na/
 NEG-COME[3SG]-NPST-NEG=NMLZ.SG
 ‘He will not come.’

Some environments containing liquids and glides that trigger voicing are shown in Table 3.14, with both monomorphemic and multimorphemic words. Some words are found with either pronunciation, and the current conclusion is that allegro speech leads to voicing, and that this became the norm for some words, but not for others.

	Yakkha	gloss
/pl/	<i>taplik ~ tablik</i>	‘story’
	<i>hoblek</i>	[manner of throwing or pouring] ‘the whole/ at once’
/pr/	<i>hobrek</i>	‘completely [rotten]’
	<i>khibrum.ba</i>	‘fog’ (also derogative for people of Caucasian phenotype)
/tr/	<i>honɖrup</i>	‘pig as present for in-laws’
/kw/	<i>cogwana</i>	‘he does it’
/pw/	<i>ubwaha</i>	‘he earns [money]’
/khy/	<i>maghyam</i>	‘old woman’
/tr/	<i>phetrak ~ phedrak</i>	‘petal’
/pr/	<i>capra ~ cabra</i>	‘spade with long handle’
/pl/	<i>lupliba ~ lubliba</i>	‘earthquake’

Table 3.14: Voicing before liquids and glides

As shown above, the voicing rule applies to lexical stems, but it also applies to inflectional morphemes and phrasal affixes (see (17)). Thus, the domain for voicing is bigger than the domain that is relevant for stress, as phrasal affixes undergo voicing, and as prefixes may trigger voicing as well.

- (17) a. *honmacibego*
 /honma=ci=pe=ko/
 river=NSG=LOC=TOP
 ‘in the rivers(, though)’
 b. *tummecuganabu*
 /tum-me?-c-u-ka=na=pu/
 understand-NPST-DU-3.P.-2.A=NMLZ.SG=HSY
 ‘(People say that) you (dual) understand him/her.’

After this outline of the basic properties of voicing in Yakkha, let us now turn to its details. The voicing rule needs to be specified further for prefixes. While nasal prefixes trigger voicing, vocalic prefixes are excluded from the voicing domain, irrespective of other factors such as stress. I have shown in Section 3.4 above that voicing is triggered neither in *a.paŋ* ‘my house’ nor in *a.pum* ‘(my) grandfather’. Only prefixes that consist of a nasal trigger voicing, as shown in (18).

- (18) a. *mbaŋ*
 /N-paŋ/
 2SG.POSS-house
 ‘your house’
 b. *ŋ-gamnibak*
 /N-kamnibak/
 2SG.POSS-friend
 ‘your friend’

In Section 3.4 on stress assignment, I have already mentioned reduplicated adjectives and adverbs. They also provide further evidence for the restriction of the voicing rule to nasal prefixes. I will exemplify this with the two adjectives *bumbum* ‘compact and heavy’ and *tutu* ‘far up’ (cf. §6.4 for more examples). The base of the adjective *bumbum* has the corresponding verbal stem *pups* ~ *pum* ‘fold, press, tuck up’, while the base of *tutu* is the adverbial root *tu* ‘uphill’. In analogy to the stress behavior, my default assumption is that the reduplication is a prefixation, although the voicing facts would support either option. The stem allomorph *pum* is reduplicated to /pum-pum/ (the stem *pups* surfaces only before vowels), and subsequently, the stem undergoes voicing, which is then spread to the first syllable to preserve the identity between the base and the reduplicated morpheme. In contrast to this, in *tutu* ‘far up’, the intervocalic environment that results from the reduplication does not trigger voicing.

As stated in the beginning of this section, voicing does not apply to aspirated plosives, at least not in the Tumok dialect (see (19)). Exceptions are found only in a handful of lexemes, mostly in ideophonic adverbs (see §6.4.4). However, aspirated plosives (and the affricate) get voiced when they occur as function verbs,¹⁹ i.e., in word-medial position (see (20)). These complex predicates also constitute one domain for stress assignment, in contrast, for instance, to the southern neighbour language Chintang, where each verbal stem in a complex predicate constitutes a stress domain of its own (Bickel et al. 2007a: 57).

¹⁹Function verbs are grammaticalized verbs, glossed as ‘V2’, see Chapter 10.

- (19) a. *ŋkhyanna*
 /N-khy-a-n=na/
 NEG-go[3SG]-PST-NEG=NMLZ.SG
 ‘He did not go.’
 b. *mempha?le*
 /meN-phat-le/
 NEG-help-CVB
 ‘without helping’
- (20) a. *kam cog-a-ghond-a-ga=i*
 /kam cok-a-khond-a-ka=i/
 work do-IMP-V2.ROAM-IMP-2=EMPH
 ‘Go on working.’
 b. *hab-a-bhoks-a=na*
 /hap-a-phoks-a=na/
 cry-PST-V2.SPLIT[3SG]-PST=NMLZ.SG
 ‘She broke out in tears.’

Yakkha has a class of composite predicates that consist of a noun and a verb. They show varying degrees of morphosyntactic freedom, but they are generally not as tightly fused as the verb-verb predicates. This is also reflected by stress: noun and verb each have their own stress, even if this results in adjacent stress. Voicing, too, treats both components as separate items (see (21)).²⁰

- (21) a. *'sa.ya 'pok.ma*
 /saya pok-ma/
 head.soul raise-INF
 ‘to raise the head soul’ (a ritual)
 b. *'luŋ.ma 'tuk.ma*
 /luŋma tuk-ma/
 liver pour-INF
 ‘to love’
 c. *'sak 'tu.ga.nai?*
 /sak tug-a=na=i/
 hunger ache[3SG]-PST=NMLZ.SG=Q
 ‘Are you hungry?/ Is he hungry?/ Are they hungry?’

Between vowels, voiced stops may further assimilate to their surrounding material and become continuants, as several alternations between intervocalic [b]

²⁰These predicates form a lexical unit though, and the nouns do not enjoy the syntactic freedom that is expected of full-fledged arguments. These predicates are best understood as idiomatic phrases (cf. Chapter 9).

and [w] show. Thus, *kamnibak* ‘friend’ may also be pronounced [kamniwak], or the imperative of *apma* ‘to come (from a visible distance on the same level)’ can alternate between [aba] and [awa]. Like in Belhare (Bickel 1998), intervocalic /t/ may also become a continuant /r/, as some historical stem changes (e.g. **thut* → *thur*) and some function verbs show, e.g. the function verb *ris* that originates in the lexical stem *tis* ‘apply, invest’, or *raʔ* originating in the lexical stem *taʔ* ‘bring (from further away)’.

The suffix *-ci* does not get voiced, neither in verbal nor in nominal inflection, as example (17) has already shown. This exceptional behavior might point towards a more complex historical form of this suffix. The only instance of a voiced marker *-ci* is in the second person dual pronoun *njiŋda* (you), which is complex at least from a historical perspective.

The affricate /c/ behaves exceptional also in other contexts. In the function verb²¹ *ca* ‘eat’ it does not undergo voicing (see (22a)), for which there is no neat explanation yet. Example (22b) shows that voicing does apply to plosives in function verbs, and as example (23) shows, stem-initial /c/ does get voiced in other environments. In some morphemes, the affricate shows free variation, as in the additive focus clitic =*ca*. It is found both voiced and unvoiced, neither related to individual nor to dialectal differences.

- (22) a. *incama*
 /in-ca-ma/
 trade-V2.EAT-INF
 ‘to sell’
 b. *hambiʔma*
 /ham-piʔ-ma/
 distribute-V2.GIVE-INF
 ‘to distribute (among people)’
- (23) a. *njogwana*
 /n-cok-wa=na/
 3PL.A-do-NPST=NMLZ.SG
 ‘They will do it.’
 b. *men-ja-le*
 /men-ca-le/
 NEG-eat-CVB
 ‘without eating’

²¹This function verb is the only one with initial /c/.

One more exception to the voicing rule has to be mentioned, shown in (24a) and (24b). Stem-final /t/ remains voiceless between vowels. If the stem ends in a nasal and /t/, voicing applies, as in (24c), and stem-initial /t/ undergoes voicing as well. The absence of voicing at the end of stems can be explained with the history of the /-t/ final stems. Comparison with Chintang and Belhare (Bickel 2003, Bickel et al. 2007a) shows that there must have been geminated /tt/, resulting from a CVt stem to which the augment *-t* was added (discussed in §8.1). Voicing does not apply when there is more than one underlying consonant between the vowels.

- (24) a. *mituna*
 /mit-u=na/
 remember[PST]-3.P=NMLZ.SG
 ‘He remembered it.’
 b. *phatuci!*
 /phat-u-ci/
 help-3.P[IMP]-NSG.P
 ‘Help them!’
 c. *chem endugana?*
 /chem ent-a-u-ka=na/
 song apply-PST-3.P-2.A=NMLZ.SG
 ‘Did you put on music?’

3.5.2 The prefixation of underspecified nasals

Yakkha has several nasal prefixes that do not constitute syllables of their own, but result in onsets that consist of prenasalized consonants. The prefixes are underspecified for the place of articulation, and thus they always assimilate to the place of articulation of the following consonant. The nasal prefixes also trigger voicing stem-initially, as could already be seen in §3.5.1 above. These nasal prefixes have several morphemic values, already mentioned in Section 3.2, and repeated here for convenience: they index third person plural S and A arguments on verbs (25a) and verbal negation (25b). The nasal prefixes also encode second person singular possessors on nouns (25c), and in adverbs, they encode a distal relation (see (25d)). If the nasal prefix is attached to a nasal-initial stem, it yields an initial nasal geminate (see (26)).

- (25) a. *m-by-a-ga-n=ha*
 3PL.A-give-PST-2.P-NEG=NMLZ.NSG
 ‘They gave it to you.’

- b. *ŋ-khy-a-n=na*
NEG-go[3SG]-PST-NEG=NMLZ.SG
'He did not go.'
- c. *m-baŋ*
2SG.POSS-house
'your house'
- d. *ŋ-khaʔla*
DIST-like_this
'like that'
- (26) a. *m-ma*
2SG.POSS-mother
'your mother'
- b. *n-nhe*
DIST-here
'there'

If the stem starts in a vowel or in /w/, the nasal is realized as velar nasal (see (27)). This fact might lead to the conclusion that actually /ŋ/ is the underlying form and gets assimilated. This would, however, be the only instance of a morphophonological change from a velar nasal to [m] or [n] in Yakkha, and thus, this option seems unlikely to me.

- (27) a. *ŋ-og-wa-ci=ha*
3PL.A-peck-NPST-3NSG.P=NMLZ.NSG
'They (the roosters) peck them (the chicks; with their beaks).'
- b. *ŋ-ikt-haks-u-ci*
3PL.A-chase-V2.SEND-3.P[PST]-3NSG.P
'They chased them away.'
- c. *kham ŋ-wapt-u=ha*
soil 3PL.A-scratch-3.P[PST]=NMLZ.NSG
'They (the chicken) scratched the ground (they scabbled about on the ground).'

A syllable with a nasal before the consonant is marked in terms of the sonority hierarchy (Jespersen 1904, Selkirk 1984, Hall 2000). Therefore, the following process can be noticed. If the preceding word (in the same clause) ends in a vowel, the nasal will resyllabify to the coda of the preceding word (see (28)), just as in Belhare (Bickel 2003: 547). I have already shown above that the domains for stress and for voicing are not identical. This process adds a third domain of phonological rules to the picture, encompassing two words in terms of stress assignment, as each of

the words carries its own stress. Even though the nasal belongs to the preceding word in terms of syllable structure, the choice of the nasal is determined by the following consonant, which also undergoes voicing due to the nasal. This suggests a sequence of morphophonological processes, of which this resyllabification is the last to apply.

- (28) a. *liŋkhaci namnuŋ bagarin jog-a*
 /liŋkha=ci nam=nuŋ bagari N-cok-a/
 Linkha=NSG sun=COM bet 3PL-do-PST
 ‘The Linkha clan had a bet with the sun.’ [11_nrr_01.003]
- b. *chu?maŋ gaksanoŋ*
 /chu?-ma N-kaks-a-n=hoŋ/
 tie-INF NEG-agree[3SG]-PST-NEG=SEQ
 ‘It (the cow) was not okay with being tied.’ [11_nrr_01.011]
- c. *nnam borakhyamanna*
 /nna N-por-a-khy-a-ma-n=na
 that NEG-fall-PST-V2.GO[3SG]-PST-NEG=NMLZ.SG
 ‘That (stele) did not topple over.’ [18_nrr_03.026]
- d. *ka he?niŋcam mandi?ŋanna*
 /ka he?niŋ=ca N-mandi?-ŋa-n=na/
 1SG when=ADD NEG-get_lost-1SG-NEG=NMLZ.SG
 ‘I would never get lost.’ [18_nrr_03.015]

3.5.3 Vowel harmony

Vowel harmony in Yakkha applies only to one prefix, namely to the possessive prefix for third person, *u-*. It has an allomorph *o-* that is triggered when the stressed syllable of the stem contains the mid vowels /e/ or /o/, illustrated by Table 3.15. Suffixes do not undergo vowel harmony in Yakkha, and neither do other prefixes.

One exceptional case has to be mentioned, the inflected form *khohetu* ‘he/she carried it off’. This is a complex verb that consists of the two verbal stems *khu?* ‘carry (on back)’ and *het* (a V2, indicating caused motion away from a reference point). Apparently, the V2 makes the vowel in the first stem change to [o]. However, this is the only instance of vowel harmony that has been encountered beyond the domain defined above.

before /e/ and /o/		before /u/, /i/, /a/	
<i>o-heksanbe</i>	‘behind her/him’	<i>u-paŋ</i>	‘her/his house’
<i>o-hop</i>	‘her/his nest’	<i>u-hingilik</i>	‘alive’
<i>o-tokhumak</i>	‘alone’	<i>u-ʈukhruk</i>	‘her/his body’
<i>o-senkhwak</i>	‘her/his bone’	<i>u-mik</i>	‘her/his eye’
<i>o-yok</i>	‘her/his place/spot’	<i>u-tiŋibhak</i>	‘its thorn’
<i>o-poŋgalik</i>	‘(its) bud’	<i>u-ʈaŋ</i>	‘its horn’
<i>o-phok</i>	‘her/his belly’	<i>u-muk</i>	‘her/his hand’
<i>o-ʈesraŋ</i>	‘reverse’	<i>u-nabhuk</i>	‘her/his nose’

Table 3.15: Vowel harmony

3.5.4 Operations to avoid adjacent vowels

The processes that avoid vowel hiatus apply to adjacent vowels as well as to vowels that are separated by a glottal stop.²² They are found in the verbal domain, since in the nominal domain there are no suffixes or clitics beginning with a vowel.

3.5.4.1 Vowel deletion

The suffixes *-a* and *-u* can get deleted when they are adjacent to another vowel. In sequences of */-a-u/*, for instance, */a/* gets deleted (see (29a)). This rule, however, also interacts with the morphology. While the past (and imperative) suffix *-a* is deleted when it is followed by the third person patient marker *-u*, the same sequence, when it results from the nonpast marker *-wa*, results in the deletion of *-u* (see (29b)).

- (29) a. *tundunna*
 /*tund-a-u-ŋ=na*/
 understand-PST-3.P-1SG.A=NMLZ.SG
 ‘I understood her/him.’
- b. *tundwana*
 /*tund-wa-u-ŋ=na*/
 understand-NPST-3.P-1SG.A=NMLZ.SG
 ‘I understand her/him.’

²²Historically, stems ending in a glottal stop were CVt stems, and the */t/* got reduced to a glottal stop. Synchronically, stems ending in glottal stop often behave identical to stems that end in a vowel, in terms of morphophonological rules.

Suffix sequences of the underlying form /-a-i/ also result in the deletion of the suffix *-a* (see (30)). When /a/ is part of the stem, however, nothing gets deleted (see (30c)). Also note that intervocalic /h/ may become [j] (<y>), as in (30a).

- (30) a. *kheiya*
 /kheʔ-a-i=ha/
 go-PST-1PL=NMLZ.NSG
 ‘We went.’
 b. *tundigha*
 /tund-a-i-ka=ha/
 understand[3.A]-PST-2PL-2=NMLZ.NSG
 ‘They understood you (plural).’
 c. *hakokŋa caiwa*
 /hakok=ŋa ca-i-wa/
 later=INS eat-1PL-NPST
 ‘We will eat later.’

Underlying sequences of three vowels are possible with open (CV and CVʔ) stems, in past and imperative forms with a third person patient. In these verb forms, both suffixes are deleted.

- (31) a. *piŋ.na*
 /piʔ-a-u-ŋ=na/
 give-PST-3.P-1SG.A=NMLZ.SG
 ‘I gave it to him.’
 b. *soŋ.na*
 /soʔ-a-u-ŋ=na/
 look-PST-3.P-1SG.A=NMLZ.SG
 ‘I looked at it.’
 c. *ha!*
 /haʔ-a-u/
 bite-IMP-3.P
 ‘Bite (into) it!’
 d. *cam.na*
 /ca-a-u-m=na/
 eat-PST-3.P-1PL.A=NMLZ.SG
 ‘We ate it.’

3.5.4.2 Ablaut

Ablaut is found only in one verb, in *cama* ‘eat’. Ablaut in some verbs is not unusual in Kiranti perspective. The stem *ca* has an allomorph *co* that is not predictable from

the phonological environment. It occurs when followed by other vowels, but not in all environments that would predict such a change if this was the condition. Its distribution over the paradigm is shown in Chapter 8, on page 244.

3.5.4.3 Insertion of glides

If the back vowels (/a/, /o/ and /u/) belong to a verbal stem and are followed by the suffix *-a*, the glide /y/ is inserted to avoid vowel hiatus. The morphological environment for these vowel sequences is provided by intransitive verbs, and in transitive verb forms with first or second person patients (see (32)). A similar process can be encountered with stems that end in /ʔ/, with /ʔ/ being replaced by /y/, as in (32d).

- (32) a. *mima uhonʔbe uyana*
 /mima u-honʔ=pe u-a=na/
 mouse 3SG.POSS-hole=LOC enter[3SG]-PST=NMLZ.SG
 ‘The mouse entered her mousehole.’
- b. *nam ayana*
 /nam a-a=na/
 sun descend[3SG]-PST=NMLZ.SG
 ‘The sun went down.’
- c. *tayana*
 /ta-a=na/
 come[3SG]-PST=NMLZ.SG
 ‘He came.’
- d. *soyanyana*
 /soʔ-a-ŋ-ka=na/
 look-PST-1SG.P-2.A=NMLZ.SG
 ‘You looked at me.’

3.5.4.4 Gliding

Front vowels of verbal stems may also be reduced to glides when they are adjacent to /a/. The syllable nucleus of the stem becomes part of the onset, and the word is again reduced by one syllable, which is obvious because of the stress pattern. Example (33a) and (33b) illustrate this for stems ending in glottal stops and (33c) shows the same process with an open stem.

- (33) a. *'khyan.na*
 /kheʔ-a-ŋ=na/
 go-PST-1SG=NMLZ.SG

- ‘I went.’
 b. *pyaŋ.na*
 /piŋ-a-ŋ=na/
 go[3SG.A]-PST-1SG.P=NMLZ.SG
 ‘He gave it to me.’
 c. *ʃya.na*
 /si-a=na/
 die[3SG]-PST=NMLZ.SG
 ‘He/she died.’

This may also happen when the stem has a back vowel. So far, this was only encountered for the verb *luʔma* (see (34)). Other verbs, e.g. *chuʔma* ‘tie’ appear in the expected form, e.g. *chuyaŋna* ‘he tied me (to sth.)’.

- (34) a. *lyan.na*
 /luŋ-a-ŋ=na/
 tell[3SG.A]-PST-1SG.P=NMLZ.SG
 ‘He told me.’
 b. *lya.ha*
 /luŋ-a=ha/
 tell[3SG.A;1.P]-PST=NMLZ.NSG
 ‘He told us.’

3.5.5 Consonants in sonorous environment

3.5.5.1 Intervocalic /h/ and /w/

Intervocalic /h/ and /w/ also trigger vowel deletion. If the two vowels surrounding /w/ or /h/ have the same quality, the preceding vowel is deleted; even if this is the stem vowel. The deletion leads to new consonant clusters, i.e. to consonants followed by /w/ (see (35a)), or to aspirated voiced plosives (see (35b)).

- (35) a. *njwan.na*
 /n-ca-wa-n=na/
 NEG-eat[3SG.A]-NPST-NEG=NMLZ.SG
 ‘He/she does not eat it.’
 b. *tun.di.wa.gha*
 /tund-i-wa-ka=ha/
 understand[3.A]-2PL.P-NPST-2=NMLZ.NSG
 ‘He/they understand you (pl).’

If the vowels do not have the same quality, and there is a transition from a close to an open vowel, intervocalic /h/ may also change to [y] (see (36)).

- (36) a. *tun.dwa.ci.ya*
 /tund-wa-ci=ha/
 understand[3SG.A]-NPST-3NSG.P=NMLZ.NSG
 ‘He/she understands them.’
 b. *ci.ya* *maŋ.cwa*
 /ci=ha maŋcwa/
 get_cold=NMLZ.NSG water
 ‘cold water’

The change of vowels to glides and the realization of underlying /h/ as aspiration can even cross stem boundaries, as the following complex predicate, consisting of three verbal stems, shows (37). The underlying stems /piʔ/ and /heks/ fuse into [bhyeks].²³

- (37) *a.cya* *tu.ga.bhyek.sana*
 /a-cya tuk-a-piʔ-heks-a=na/
 1SG.POSS-child get_ill[3SG]-PST-V2.GIVE-V2.CUT-PST=NMLZ.SG
 ‘My child is about to get ill.’

3.5.5.2 Nasals in sonorous environment

Nasals in sonorous environment are prone to phonological alternations. Nasal vowels are not part of the phoneme set of Yakkha. They may be generated, however, in intervocalic environments at morpheme boundaries, or when a nasal occurs between a vowel and a liquid or a glide. This happens when the negative converb (marked by prefix and suffix: *meN-Σ-le*) attaches to an open stem, or to a stem with initial /w/, /y/ or /l/. The nasal in *meN-Σ-le* is not specified; if it attaches to stems that have initial consonants, it assimilates to their place of articulation. Examples are provided in Table 3.16.

Another process producing nasal vowels was noticed in allegro forms of complex predicates such as *ŋonsipma* ‘feel shy’ and *thensipma* ‘fit, suit’, which were pronounced *ŋoĩsipma* and *theĩsipma* in fast speech.

²³The V2 *-piʔ* indicates that some participant (the speaker, the subject or even someone else) is affected by the event, and the V2 *-heks* specifies the temporal reference of the event as immediate prospective. In pronunciation, they get fused to [bhyeks].

STEM	CITATION FORM	NEGATIVE CONVERB
/waʔ/	<i>waʔma</i> ‘wear, put on’	<i>mẽ.waʔ.le</i> ‘without wearing’
/a/	<i>ama</i> ‘descend’	<i>mẽ.a.le</i> ‘without descending’
/u/	<i>uma</i> ‘enter’	<i>mẽ.u.le</i> ‘without wearing’
/lap/	<i>lapma</i> ‘seize, catch’	<i>mẽ.lap.le</i> ‘without wearing’
/yok/	<i>yokma</i> ‘search’	<i>mẽ.yok.le</i> ‘without wearing’

Table 3.16: Nasals in sonorous environment

3.5.6 Assimilations

Syllable-final coronals assimilate to coronal fricatives, yielding a geminated fricative [s:] (written <ss>) (see (38)). This assimilation is connected to stress. In unstressed syllables, no assimilation occurs, and the stem-final /t/ is simply deleted before fricatives (see (38c)). Occasionally, stem-final glottal stops can also undergo this assimilation, but this is subject to free variation.

- (38) a. *es.se*
 /et-se/
 apply-SUP
 ‘in order to apply’
- b. *mis.saŋ*
 /mit-saŋ/
 remember-SIM
 ‘remembering’
- c. *ki.si.saŋ*
 /kisit-saŋ/
 be_afraid-SIM
 ‘being afraid’

The following examples show that this gemination does not apply to the other plosives /k/ and /p/. Stems ending in a glottal stop are treated like open stems, illustrated by (39c). Stems that have a coronal augment yield an underlying sequence of three consonants when followed by /s/. In this case, nothing gets assimilated. The general rule for augmented stems followed by consonants applies, i.e. the augment is simply omitted, as shown in (40).

- (39) a. *ap.se*
 /ap-se/
 shoot-SUP
 ‘in order to shoot’
 b. *cok.se*
 /cok-se/
 do-SUP
 ‘in order to do’
 c. *so.se*
 /soʔ-se/
 look-SUP
 ‘in order to look’

- (40) a. *un.se*
 /und-se/
 pull-SUP
 ‘in order to pull’
 b. *chep.se*
 /chept-se/
 write-SUP
 ‘in order to write’

Furthermore, stems ending in a coronal stop, and occasionally also stems ending in a glottal stop, show a regressive assimilation to velar place of articulation, yielding the geminate [k:] as shown in (41).

- (41) a. *phak.khuba*
 /phat-khuba/
 help-NMLZ
 ‘helper’
 b. *khek.khuba*
 /khet-khuba/
 carry_off-NMLZ
 ‘the one who carries it off’
 c. *sok.khuba*
 /soʔ-khuba/
 look-NMLZ
 ‘the one who looks’

An optional regressive assimilation, conditioned by fast speech, can be found in underlying sequences of nasals followed by a palatal glide or a lateral approximant

(/y/ or /l/), both stem-initially and stem-finally. In such environments, the nasal assimilates further, giving up its feature of nasality (see (42)).

- (42) a. *lleỹmenna*
 /N-leks-meʔ-n=na/
 NEG-become[3SG]-NPST-NEG=NMLZ.SG
 ‘It will not happen./It is not alright.’
 b. *mē̃yelle*
 /meN-yen-le/
 NEG-obey-CVB
 ‘without listening/obeying’
 c. *yyupmaci*
 /N-yupma=ci/
 2SG.POSS-tiredness=NSG
 ‘your tiredness’²⁴

3.5.7 Operations involving nasals

3.5.7.1 Nasality assimilation

The nasal consonants themselves also trigger several regressive assimilation processes, either in place of articulation or in nasality. Coronals and the glottal stop are particularly prone to assimilations, while the velar and the bilabial stop are less inclined to assimilate. Stem-final /t/ and /ʔ/ will assimilate completely if they are followed by stressed syllables starting in /m/ (see (43a)). Under the same condition, stems ending in velar stops (both plain and augmented) undergo nasal assimilation, with the place of articulation retained (see (43b) and (43c)).

- (43) a. *pham.ʔmeŋ.na*
 /phat-me-ŋ=na/
 help[3SG.A]-NPST-1SG.P=NMLZ.SG
 ‘He/she helps me.’
 b. *peŋ.ʔmeʔ.na*
 /pek-meʔ=na/
 break[3SG]-NPST=NMLZ.SG
 ‘It breaks.’
 c. *naŋ.ʔmeʔ.na*
 /nakt-meʔ=na/
 ask[3SG]-NPST=NMLZ.SG
 ‘He asks.’

²⁴Some nouns are obligatorily marked for nonsingular, especially in experiential expressions.

In stems that end in /n/ or /nd/ (with augmented /t/), the coda completely assimilates to [m]. In contrast to the assimilation discussed above, this assimilation is not sensitive to stress. For instance, stems like *tund* ‘understand’ and *yen* ‘obey’ have the infinitival forms *tumma* and *yemma*, respectively, with the stress falling on the first syllable. Stems ending in a velar stop or in a bilabial stop never assimilate completely; their place of articulation is retained. Compare, e.g. *pekma* ‘break’ (stem: *pek*) with (43b) above. Following a general rule in Yakkha, augmented stems (ending in two consonants) block assimilation and also other morphophonological processes, e.g. *chepma* ‘write’ (stem: *chept*). Furthermore, velar and bilabial nasals never assimilate to other nasals, in contrast to languages like Athpare and Belhare (Ebert 1997, Bickel 2003).

3.5.7.2 Nasalization of codas

Nasalization of obstruents does not only happen as assimilation to nasal material. When obstruents are adjacent in complex predicates, the first obstruent, i.e. the stem-final consonant of the first stem, becomes a nasal, in order to avoid a marked structure. Examples are provided in Table 3.17.²⁵ Within complex predicates this process is most frequently found in infinitival forms, as in the inflected forms morphological material (suffixes with vowel quality) gets inserted between the verbal stems, thus resolving the marked sequences of adjacent obstruents.

The nasal often retains the place of articulation of the underlying obstruent, but some assimilations are possible too, e.g. /sos-khe?-ma/ becoming *soŋkhe?ma* ‘slide off’ (slide-go). If the underlying obstruent is a glottal stop, the place of articulation of the nasal is always conditioned by the following consonant, e.g. *han-cama* /ha?-cama/ ‘devour’ (bite-eat).

As Table 3.17 shows, both simple (CVC) and augmented stems (CVC-s and CVC-t) are subject to this change from obstruent to nasal. The same change can be observed in reduplicated adverbs and adjectives, e.g. in *sonson* ‘slanted’ (derived from the verbal stem /sos/) or *simsim* ‘squinting, blinking’ (derived from the verbal stem /sips/).

This process is also sensitive to stress. The last example of Table 3.17, *um.khe?.ma*, with the stress on the second syllable, can be contrasted with the nominalized *up.khu.ba* ‘something that collapses’, with the stress on the first syllable. Here,

²⁵The V2 *-pi?* has a suppletive form *-di?*, which cannot be explained by phonological operations. It occurs only in intransitive uses of *-pi?* ~ *-di?* ‘give’ as a function verb. The inflected forms show that the underlying stem is *-pi?*.

the stem appears in the general form of *t*-augmented stems that are followed by consonants: the augment is simply omitted.

CITATION FORMS		STEMS
<i>yuncama</i>	‘laugh, smile’	/yut/ + /ca/
<i>suncama</i>	‘itch’	/sus/ + /ca/
<i>incama</i>	‘play’	/is/ + /ca/
<i>hancama</i>	‘devour’	/haʔ/ + /ca/
<i>sendiʔma</i>	‘get stale’	/ses/ + /piʔ/
<i>mandiʔma</i>	‘get lost’	/mas/ + /piʔ/
<i>pendiʔma</i>	‘get wet’	/pet/ + /piʔ/
<i>phomdiʔma</i>	‘spill’	/phopt/ + /piʔ/
<i>sonsiʔma</i>	‘slide, slip’	/sos/ + /siʔ/
<i>tomsʔma</i>	‘get confused’	/tops/ + /siʔ/
<i>yaŋsiʔma</i>	‘get exhausted’	/yak/ + /siʔ/
<i>homkheʔma</i>	‘get damaged’	/hop/ + /kheʔ/
<i>soŋkheʔma</i>	‘slide off’	/sos/ + /kheʔ/
<i>umkheʔma</i>	‘collapse’	/upt/ + /kheʔ/

Table 3.17: Nasalization of obstruents stem-finally

3.5.7.3 Insertion of nasals

In addition to the nasalization of obstruents, nasals can be inserted in complex predication, given the following condition: if the V2 in a complex predicate starts in a vowel or in /h/, either the preceding consonants (the complete coda or only the augment of the first verbal stem) become nasals, or, when the first stem has CV or CVʔ shape, the default nasal /n/ is inserted between the two stems. Table 3.18 provides examples of citation forms of complex predicates with inserted nasals, and their underlying stems.

The process is not a blind insertion of phonetic material, i.e. it is not simply epenthesis. Remarkably, it is triggered by the phonological quality of non-adjacent morphological material: the change of stops to nasals or the insertion of nasals is conditioned by the availability of nasals in the morphology that attaches to the stem. The suffixes containing nasals have to attach directly to the complex stem in order to trigger the insertion of nasals. Compare the examples in (44). In (44a) and (44b), the sequence /pt/ becomes [mn], and the following /h/ is realized as the

aspiration of [n]. In (44c), the inflection does not immediately contain a nasal, and thus the phonological material of the stem remains as it is. It gets resyllabified, however, and the /h/ is realized as aspiration of the preceding consonant. Example (45), with the verb *le?nemma* ‘let go, drop’ illustrates the insertion of /n/ when a CV-stem (or CV?) and a vowel-initial stem are adjacent in complex predication. The same condition as in (44) can be observed. Only nasal material in the suffix string licenses the insertion of /n/ between the two verbal stems.

- (44) a. *lem.nhaŋ.ma*
 /lept-haks-ma/
 throw-V2.SEND-INF
 ‘to throw away/out’
- b. *lem.nhaŋ.nen?*
 /lept-haks-nen/
 throw-V2.SEND-1>2
 ‘Shall I throw you out?’
- c. *lep.thak.suŋ.na*
 /lept-haks-u-ŋ=na/
 throw-V2.SEND-3.P[PST]-1SG.A=NMLZ.SG
 ‘I threw her/him out.’
- (45) a. *le?nen.saŋ*
 /le?-end-saŋ/
 drop-V2.INSERT-SIM
 ‘stretching down’
- b. *u.laŋ* *le.?en.du.ci.ya*
 /u-laŋ le?-end-a-u-ci=ha/
 3SG.POSS-leg drop-V2.INSERT-PST-3.P-NSG.P=NMLZ.NSG
 ‘It (the aeroplane) lowered its landing gear.’

The insertion of /n/ can affect the coda of the first stem, too. Stems ending in /s/ may change to CV-? when followed by a vowel-initial stem, as in *ti?nama* ‘deliver’ (/tis + a/). This again suggests a sequence of processes, i.e. the insertion of /n/, followed by the change of /s/ to [ʔ]. It is not clear, however, why these citation forms do not simply resyllabify, e.g. to [tisama] instead of [ti?nama], because this resyllabification is exactly what happens in the respective inflected forms. Apparently, citation forms prefer to keep morpheme boundaries and syllable boundaries congruent. Note that V2s starting in /h/ behave differently from V2s starting in a vowel, because a complex predicate consisting of /khus/ + /haks/ does not become [khu?.nhaŋ.ma] but *khu.nhaŋ.ma*.

CITATION FORMS	STEMS
<i>hu.nhaŋ.ma</i> ‘burn down’	/huʔ/ + /haks/
<i>lem.nhaŋ.ma</i> ‘throw away/out’	/lept/ + /haks/
<i>khu.nhaŋ.ma</i> ‘rescue’	/khus/ + /haks/
<i>iŋ.nhaŋ.ma</i> ‘chase off’	/ikt/ + /haks/
<i>pheʔ.na.ma</i> ‘drop at’	/phes/ + /a/
<i>et.na.ma</i> ‘enroll, install somewhere (and come back)’	/et/ + /a/
<i>tik.na.ma</i> ‘take along’	/tikt/ + /a/
<i>tiʔ.na.ma</i> ‘deliver, bring (and come back)’	/tis/ + /a/
<i>yuk.na.ma</i> ‘put for s.b. and leave’	/yuks/ + /a/
<i>leʔ.nem.ma</i> ‘drop’	/leʔ/ + /end/
<i>hak.nem.ma</i> ‘send down’	/hakt/ + /end/
<i>aʔ.nem.ma</i> ‘wrestle down’	/a/ + /end/
<i>ak.nem.ma</i> ‘kick down’	/ak/ + /end/
<i>leʔ.nem.ma</i> ‘drop’	/leʔ/ + /end/
<i>lep.nem.ma</i> ‘throw down’	/lept/ + /end/

Table 3.18: The insertion of nasals in complex predication

Table 3.19 summarizes the processes of the preceding two sections, with examples for each process. To sum up, the insertion of nasals and the transformation of obstruents to nasals are employed to avoid marked structures such as adjacent vowels, adjacent obstruents, and impossible syllable codas, while maintaining the identity of morpheme boundaries and syllable boundaries. This stands in contrast to inflected forms, where resyllabification is unproblematic.

OPERATION	CITATION FORM	V.LEX + V2
/C _[1] +C/ → N _[1] .C	<i>hom.kheʔ.ma</i> ‘get damaged’	/hop/ + /kheʔ/
/C _[1] C _[2] +V/ → C _[1] .nV	<i>mak.ni.ma</i> ‘surprise’	/maks/ + /i/
/C _[1] C _[2] +hV/ → N _[1] .nhV	<i>lem.nhaŋ.ma</i> ‘throw away/out’	/lept/ + /haks/
/s+hV/ → .nhV	<i>khu.nhaŋ.ma</i> ‘rescue’	/khus/ + /haks/
/s+V/ → ʔ.nV	<i>maʔ.ni.ma</i> ‘lose’	/mas/ + /i/
/V+V/ → Vʔ.nV	<i>aʔ.nem.ma</i> ‘wrestle down’	/a/ + /end/

Table 3.19: Repair operations in complex predicates involving nasals

3.5.8 Nasal copying

In the verbal inflection of Kiranti languages, nasal morphemes can be realized up to three times in the suffix string, a process that was termed ‘affix copying’ or ‘nasal copying’, e.g. in van Driem (1987), Doornenbal (2009), Ebert (2003c), Bickel (2003). Alternative analyses have been proposed to explain this process: recursive inflection in Bickel et al. (2007a) and radically underspecified segments in Zimmermann (2012).

Yakkha nasal copying is illustrated by (46). Suffixes that consist of nasals or that contain nasals occur more than once under certain conditions, and without any semantic consequences. There are no contrasting forms that lack the copied suffixes. It is morphologically most economical to assume regressive copying, with the last nasal suffix serving as base. A comparison of the inflected forms in (46) below supports this reasoning, because the slots after the suffixes *-meʔ* and *-u* are filled with varying material.²⁶ What is remarkable about the nasal copying is that the value of the underspecified nasal is determined by non-adjacent segments.

²⁶Note that the glosses ‘1sg.A’ and ‘EXCL’ refer to the same morpheme, if the structure of the whole paradigm is taken into account. It is defined by the property [non-inclusive]. This collapse of markers is also found in the intransitive forms of the Belhare verbal inflection (Bickel 1995). For the sake of the readability of the glosses, the morphological analysis and also the alignment patterns of particular morphemes are kept out of the glosses, as far as possible.

- (46) a. *piŋ.ciŋ.ha*
 /piŋ-a-u-N-ci-ŋ=ha/
 give-PST-3.P-[copy]-3NSG.P-1sg.A=NMLZ.NSG
 ‘I gave it to them.’
- b. *tun.dum.cim.ŋha*
 /tund-a-u-N-ci-m-ŋ=ha/
 understand-PST-3.P-[copy]-3NSG.P-1pl.A-EXCL=NMLZ.NSG
 ‘We understand them.’
- c. *ndum.men.cun.ci.ga.nha*
 /n-tund-me?-N-ci-u-N-ci-ga-n=ha/
 NEG-Σ-NPST-[copy]-DU.A-3.P-[copy]-3NSG.P-2.A-NEG=NMLZ.NSG
 ‘You (dual) do not understand them.’

The motivation for this copying process might be a phonological repair operation to yield closed syllables.²⁷ Repair operations involving nasals would not be uncommon for Yakkha, as I have already shown in §3.5.7. An obvious shortcoming of this explanation is that nasals are not copied to all syllables that one would expect in light of a purely phonological condition (compare (47a) and (47b)).

- (47) a. *ŋ-khy-a-ma-ga-n=na* (not **ŋkhyanmanganna*)
 NEG-go-PST-PRF-2-NEG=NMLZ.SG
 ‘You have not come.’
- b. *ŋ-khy-a-ma-n-ci-ga-n=ha*
 NEG-go-PST-PRF-[copy]-DU-2-neg=NMLZ.NSG
 ‘You (dual) have not come.’

An alternative analysis has been proposed by Zimmermann (2012), resulting from a comparison of several Kiranti languages. In her approach, the copying is a morpheme-specific process, happening only in the vicinity of certain suffixes. In line with her observations, all instances of copied nasals in Yakkha directly precede the suffix *-ci* (with the two morphological values ‘dual’ and ‘3NSG.P’, cf. paradigm tables in §8.4.6). Hence, it is the suffix *-ci* that licenses the nasal copying in Yakkha. The process as such and the phonological content of the copies are morphologically informed; they are based upon the presence of certain morphological markers. In the absence of *-ci* nothing gets copied, and the same holds for inflectional forms in which no nasals are available to serve as base. Hence, nasal copying is not just the blind fulfillment of a phonological constraint, as epenthe-

²⁷Cf. Schikowski (2012: 22) for the same explanation on Chintang suffix copying, although on p. 25 he points out that this explanation is not watertight, since some copying processes may even create open syllables.

sizing any nasal material would be. On the other hand, since no semantic content is added by the nasal copies, the operation is not purely morphological either, but located at the boundary between phonology and morphology.

Another observation made is that the nasal suffixes compete about the choice which suffix will serve as base for the copying. If we compare (48a) and (48b), we can see that the preferred choice here is /n/, instantiated by the negation marker, although the closest available base in (48b) would be the velar nasal from the suffix -ŋ. This shows that the choice is not determined by the linear succession of the available nasals. The negation is the only morphological contrast between the two verb forms, and the nasal that is copied changes from /ŋ/ to /n/, compared to (48a). In (48c), there is a competition between /n/ and /m/ as bases, which is won by /m/. This selection principle holds throughout the inflectional paradigm, so that the hierarchy for the choice of the base must be /m/ > /n/ > /ŋ/.

- (48) a. *tum.meŋ.cuŋ.ci.ŋha*
 /tund-me?-N-ci-u-N-ci-ŋ=ha/
 understand-NPST-[copy]-DU.A-3.P-[copy]-3NSG.P-excl=NMLZ.NSG
 ‘We (dual, excl.) understand them.’
- b. *ndum.men.cun.ci.ŋa.nha*
 /n-tund-me?-N-ci-u-N-ci-ŋ(a)-n=ha/
 NEG-Σ-NPST-[copy]-DU.A-3.P-[copy]-3NSG.P-EXCL-neg=NMLZ.NSG
 ‘We (dual, excl.) do not understand them.’
- c. *ndun.dwam.cim.ŋa.nha*
 /n-tund-wa-u-N-ci-m-ŋ(a)-n=ha/
 NEG-understand-NPST-3.P-[copy]-3NSG.P-1pl.A-EXCL-NEG=NMLZ.NSG
 ‘We (plural) do not understand them.’

4 Pronouns, demonstratives, quantifiers, numerals, interrogatives

This chapter describes the elements that can be found in the noun phrase, modifying or replacing a head noun. It is structured as follows: §4.1 deals with the personal pronouns, §4.2 discusses the possessive pronouns, and §4.3 the demonstratives. Section 4.4 shows how indefinite reference is expressed, §4.5 deals with numerals and other quantifying elements. Section 4.6 on interrogative forms includes also non-nominal interrogatives.

4.1 Personal pronouns

Yakkha personal pronouns are used to refer to persons, typically to participants whose reference has already been established in discourse. They can take the structural position of a noun phrase (of any participant role) or they can function as heads of noun phrases, although the possibilities to be modified are restricted; relative clauses and demonstratives are not possible, for instance. Possible modifiers are quantifiers and numerals, but they follow the the pronominal head, in contrast to noun phrases with nominal heads, which are mostly head-final. Pronouns, like noun phrases in general in Yakkha, are not obligatory, and they are frequently dropped.

The pronouns distinguish person and number. Clusivity, which is found in possessive pronouns, possessive prefixes and in the verbal inflection, does not play a role in the personal pronouns (compare (1a) and (1b)). An overview of the personal pronouns is provided together with the possessive pronouns in Table 4.1 below. The first and second person pronouns distinguish singular, dual and plural number. The morpheme *-ci* conveys a dual meaning in the first and second per-

son pronouns, as opposed to *-ni* for plural. In the third person, *-ci* simply has a nonsingular meaning.¹

- (1) a. *kanin̩ khe-i-ŋ=a*
 1PL go[PST]-1PL-EXCL=NMLZ.NSG
 ‘We (without you) went.’
 b. *kanin̩ khe-i=ha*
 1PL go[PST]-1PL=NMLZ.NSG
 ‘We (all) went.’

4.2 Possessive pronouns and nominal possessive inflection

4.2.1 Possessive pronouns

The possessive pronouns modify a head noun, indicating the possessor of the thing that is referred to by that noun (see (2a)). Since the head noun can be omitted when its reference is established already, the possessive pronoun can also be the sole element in a phrase (see (2b)).

The possessive pronouns resemble the personal pronouns somewhat, but they are sufficiently different and irregular, so that they establish a separate paradigm. Except for the third person nonsingular form, the roots all look slightly different from the corresponding personal pronouns. They all host the genitive enclitic *=ga*, though. The possessive pronouns distinguish number and person, includingclusivity, a category that is absent from the personal pronoun paradigm. The inclusive forms have no parallel in the personal pronouns. Table 4.1 provides an overview of personal and possessive pronouns and possessive prefixes. The capital /N/ stands for an unspecified nasal that assimilates in place of articulation to the following consonant.

- (2) a. *ak=ka* *kucuma* *sy-a-ma=na*
 1SG.POSS=GEN dog die[3SG]-PST-PRF=NMLZ.SG
 ‘My dog has died.’
 b. *ak=ka=ca* *sy-a-ma=na*
 1SG.POSS=GEN=ADD die[3SG]-PST-PRF=NMLZ.SG
 ‘Mine has died, too.’

¹Note that in contrast to the pronominal paradigm, the verbal inflection distinguishes dual number also in the third person (cf. §8.2).

	PERSONAL PRONOUN	POSSESSIVE PRONOUN	POSSESSIVE PREFIX
1SG	<i>ka</i>	<i>akka</i>	<i>a-</i>
1DU.EXCL	<i>kanciŋ</i>	<i>anciŋga</i>	<i>anciŋ-</i>
1PL.EXCL	<i>kaniŋ</i>	<i>aniŋga</i>	<i>aniŋ-</i>
1DU.INCL	<i>kanciŋ</i>	<i>enciŋga</i>	<i>enciŋ-</i>
1PL.INCL	<i>kaniŋ</i>	<i>eŋga</i>	<i>eN-</i>
2SG	<i>nda</i>	<i>ŋga</i>	<i>N-</i>
2DU	<i>njiŋda</i>	<i>njiŋga</i>	<i>njiŋ-</i>
2PL	<i>nniŋda</i>	<i>nniŋga</i>	<i>nniŋ-</i>
3SG	<i>uŋ</i>	<i>ukka</i>	<i>u- ~ o-</i>
3NSG	<i>uŋci</i>	<i>uŋciga</i>	<i>uŋci-</i>

Table 4.1: Personal and possessive pronouns, possessive inflection

4.2.2 Possessive prefixes

Alternatively to using possessive pronouns, relationships of possession can also be expressed by attaching a possessive prefix to the head noun, that refers to the possessee. The prefixes index the number and person of the possessor. Their form is similar to the possessive pronouns, which suggests that they have developed out of them. The nasals in the 1PL.INCL prefix *eN-* and in the 2SG prefix *N-* assimilate in place of articulation to the first consonant of their nominal host (see (3)). The third person singular prefix *u-* has the allomorph *o-* before stems containing /e/ or /o/. The possessee can also be nouns referring to sensations, as in (3a).

The difference between using a pronoun or a prefix lies in the information structure. If the possessive relationship is focussed on, the pronoun has to be used.

- (3)
- a. *n-yupma*
2SG.POSS-sleepiness
'your sleepiness'
 - b. *m-ba*
2SG.POSS-father
'your father'
 - c. *eŋ-gamnibak*
1PL.INCL.POSS-friend
'our friend'

4.2 Possessive pronouns and nominal possessive inflection

CONSANGUINEAL KINSHIP	
<i>acya</i>	‘child’
<i>aphu</i>	‘elder brother’
<i>ana</i>	‘elder sister’
<i>aphaŋ</i>	‘father’s younger brother’
<i>akoŋma</i>	‘mother’s younger sister’
SPATIAL AND TEMPORAL RELATIONS	
<i>ucumphak</i>	‘day after tomorrow’
<i>ulum</i>	‘middle, center’ (relational noun)
<i>oŋemma</i>	‘plains’
<i>uyum</i>	‘side’ (relational noun)
<i>okomphak</i>	‘third day after today’
BODY PARTS	
<i>unabhak</i>	‘ear’
<i>umik</i>	‘eye’
<i>unamcyaŋ</i>	‘cheek’
<i>unacik</i>	‘face’
<i>utamphwak</i>	‘hair’
<i>umuk</i>	‘hand’
<i>uŋaŋ</i>	‘horn’
<i>ulaŋ</i>	‘leg’
<i>uya</i>	‘mouth, opening’
<i>ophok</i>	‘stomach’
<i>osenkhwak</i>	‘bone’
<i>uŋiŋ</i>	‘thorn, fishbone’
PART-WHOLE RELATIONS	
<i>opoŋgalik</i>	‘bud’
<i>uchuk</i>	‘corner’
<i>upusum</i>	‘crust’
<i>uyin</i>	‘egg’
<i>otheklup</i>	‘half’
<i>okhop</i>	‘husk of rice’
<i>uhup</i>	‘knot’
<i>ukhuppa</i>	‘lid, cover’
<i>ophetrak</i>	‘petal’
<i>ochon</i>	‘thorn, splinter’
<i>oyok</i>	‘place’
<i>uwha</i>	‘wound’

Table 4.3: Some obligatorily possessed nouns

terms clearly have the stress on the first syllable: 'a.mum, 'a.pum, 'a.na, 'a.ni. Even though the stress does not treat the prefixes like prefixes any more, the words are still transparent, since 'his grandmother' is u.'mum, not *u.'a.mum.

Terms for non-consanguineal family relations, like *namba* ‘father-in-law’ or *taɲme* ‘daughter-in-law’ do not fall within the domain of obligatory possession (see example (5a)).⁴ This does not mean that possessive prefixes are prohibited, they are just less frequent. The difference is nicely illustrated in (5b), from a wedding description that contains many kinship terms.

- (5) a. *tabhan* *he?ne* *tas-wa-ga=na*
male_in-law where arrive-NPST-2=NMLZ.SG
‘Where will (your) husband arrive?’

 b. *nhaŋa* *jammai* *jammai* *jammai* *lokondi,* [...]
and_then all all all companion_of_bride [...]

 u-chim *u-pharɿ=ci*
3SG.POSS-FyBW 3SG.POSS-FyB=NSG
‘and then, they all, the bride’s companions, her paternal aunts and
uncles ...’ [25_tra_01.091]

While the default option for kin terms is the first person prefix, for the other obligatorily possessed nouns it is the third person singular, as for instance in *u-tij* ‘thorn’. We find some lexicalized instances here as well, for instance *usa* ‘fruit’, stressed on the first syllable and lexicalized from the more general noun *sa*, translating as ‘flesh, meat’ and ‘fruit flesh’. Another instance is *uwa* ‘nectar, honey, (any) liquid’, also stressed on the first syllable, with the original meaning ‘water’ or more generally ‘liquid’.

4.3 Demonstratives

The functional core of demonstratives is deixis. Demonstratives (just like pronouns and temporal adverbs such as ‘tomorrow’) are deictic; their reference depends on a center that is established in the particular utterance context and that may thus change with that particular utterance context (Bühler 1934, Fillmore 1971 (1997)). The point of reference is typically, but not necessarily, the speaker.

There are two sets of demonstratives in Yakkha, one set based on proximity and distance to the deictic center (spatial as well as anaphoric, see §4.3.1) and one set based on the inclination of the landscape, called “geomorphic” in Bickel (1997c)).

⁴I thank Ram Kumar Linkha for pointing this out to me.

The latter are treated separately in §7.2 on the topography-based orientation system. The roots of the former set are pronominal by their nature, but they can become adverbial via derivations (see §4.3.2).

4.3.1 Proximal, distal and anaphoric deixis

Table 4.4 shows the forms expressing the three-fold distinction between proximal, distal and anaphoric demonstratives. The proximal forms are used to refer to objects or people that are close to the speaker and can be touched or pointed at, while the distal forms are used for objects or people further away and also for referents that are not present in the speech situation. In narratives, mostly the distal forms are used, except in direct quotations. The anaphoric demonstratives are used to take up reference to some participant that had already been activated before in discourse, best translated as ‘that very (person/thing/event)’. The members of this set of demonstratives are also found in correlative clauses (see §13.4. Demonstratives can be used adnominally (i.e. modifying a head noun) and pronominally (i.e. replacing a noun phrase) in Yakkha. Furthermore, demonstratives may replace personal pronouns in the third person, as the use of personal pronouns is considered somewhat rude.

	PROXIMAL	DISTAL	ANAPHORIC
SG	<i>na</i>	<i>nna</i>	<i>honna</i>
NSG/	<i>kha</i>	<i>ŋkha(ci) ~</i>	<i>hoŋkha(ci)</i>
NON-COUNT		<i>nnakha(ci)</i>	

Table 4.4: Proximal, distal and anaphoric demonstratives

Let us first take a look at the proximal-distal distinction. In example (6), the demonstratives are used in attributive function. The number distinction is encoded by the base forms for proximal deixis *na* (singular) and *kha* (nonsingular and non-countable reference).⁵ Distal deixis is expressed by adding either a prefix *nna* or just a homorganic nasal to these roots (not segmented in the glosses).⁶ No semantic difference between *nnakha* and *ŋkha* could be determined, and the latter

⁵The distinction between singular on the one hand and nonsingular/non-countable on the other hand is fundamental and robust in Yakkha, found not only in the demonstratives but also in nominalizations and in verbal agreement.

⁶In Belhare (Bickel 2003: 548), the lexeme corresponding to *nna* is *ina*. The same sound correspondence (between nasal prefix and prefix *i-*) is found between the Tumok and the Kharang dialects of Yakkha.

seems like a contracted form of the former. In terms of stress assignment, these demonstratives may cliticize phonologically when they are used attributively, but they are generally able to carry their own stress. They naturally carry stress when they occur on their own, e.g. *khaci* ‘these’.

- (6)
- a. *na babu*
this boy
‘this boy’
 - b. *nna babu*
that boy
‘that boy’
 - c. *kha babu=ci*
these boy=NSG
‘these boys’
 - d. *ɲkha babu=ci*
those boy=NSG
‘those boys’
 - e. *kha kham*
this mud
‘this mud/soil’
 - f. *ɲkha kham*
that mud
‘that mud/soil’

As example (6) shows, all demonstratives can appear as nominal modifiers (see also (7)). The non-countable reference of *kha* can be illustrated by the difference between *tonba* ‘beer served in a small barrel and drunken with a pipe’ and *cuwa* ‘beer’. While the first has countable reference, the latter is treated as a substance and hence has non-countable reference. The demonstrative *kha* may thus refer to nonsingular instances of count nouns (see (7b)) or to mass nouns (see (7c)). This distinction of number and countability is also reflected in the sentence-final nominalizers in these examples, which are etymologically related to the demonstratives (discussed at length in §13.3).

- (7)
- a. *na tonba imin et-u-ga=na?*
this beer_in_barrel how like-3.P[PST]-2=NMLZ.SG
‘How do you like this tongba?’
 - b. *kha tonba=ci khumbu=ha=ci*
these beer_in_barrel=NSG tasty=NMLZ.NSG=NSG
‘These tongbas are tasty.’

- c. *kha cuwa(*=ci) khumdu=ha*
 these beer(*=NSG) tasty=NMLZ.NC
 ‘This beer (beer of this house/area) is tasty.’

The demonstratives may also head noun phrases, hosting the phrasal morphology and triggering agreement (see (8)). They are more restricted than nominal heads of noun phrases, as they cannot take adnominal modifiers.

- (8) a. *kha=ci ucun=ha=c=em, ŋkha=ci*
 these=NSG nice=NMLZ.NSG=NSG=ALT those=NSG
ucun=ha=c=em?
 nice=NMLZ.NSG=NSG=ALT
 ‘Are these better or those?’
 b. *na=go ucun=na*
 this=TOP nice=NMLZ.SG
 ‘This one is nice.’

The anaphoric demonstratives identify referents that have already been activated in discourse, and are taken up again, as in (9), from a pear story. The speaker introduces her narrative with the fact that she has seen a film. Then, the listener makes a joke, distracting away from the film (not included in the example). The speaker re-introduces the topic with *honna*.

- (9) a. *ha, imin ka-ma=ha? ka khem eko philm*
 yes, how say-INF[DEONT]=NMLZ.NSG 1SG before one film
so-ŋ, men=na=i?
 watch[3.P;PST]-1SG.A NEG.COP=NMLZ.SG=Q
 ‘Yes, how to start? I saw a film before, right?’ [34_pea_04.005]
 b. *honna=be=jhen, eko jangal=we eko yapmi*
 that_very=LOC=TOP one jungle=LOC one person
khy-a-masa, men=na=i? paghyam.
 go[3SG]-PST-PST.PRF NEG.COP=NMLZ.SG=Q old_man
 ‘In that (film), a man had gone into a jungle, right? An old man.’
 [34_pea_04.011]

In (10), a written narrative, the protagonist wants to go fishing to surprise his sick father. What happens is that he loses the fishing net in the strong currents of the river. The following is said about the net after narrating how he lost it:

- (10) *honna eko=se jal wa-ya-masa=na*
 that_very one=RESTR net exist[3SG]-PST-PST.PRF=NMLZ.SG
 ‘There had been only that very net.’ [01_leg_07.214]

Human reference is possible with *honna* as well, exemplified by (11).

- (11) *nnakha?la cok-saŋ honna yapmi bhirik=phaŋ*
 like_that do-SIM that_very person cliff=ABL
lond-uks-u
 take_out-PRF-3.P[PST]
 ‘In this way, he rescued that (afore-mentioned) man from the cliff.’
 [01_leg_07.330]

In (12), also a written narrative, the referent taken up from the previous clause is a cradle.

- (12) a. *uŋ=ŋa hoŋma=ŋa eko mina yoŋ*
 3SG=ERG river=INS one small cradle
yaŋ-khe?-ma-si-me?-na *nis-uks-u*
 flush-V2.CARRY.OFF-INF-AUX.PROG-NPST=NMLZ.SG see-PRF-3.P[PST]
 ‘She saw a little cradle being carried off by the river.’ [01_leg_07.288]
- b. *nhaŋ uŋ=ŋa hattapatta honna yoŋ lab-uks-u*
 and_then 3SG=ERG hastily that_very cradle grab-PRF-3.P[PST]
 ‘And hastily she grabbed that cradle.’ [01_leg_07.289]

The singular form *na* could be etymologically related to a topic particle of the same form, as it is still found in Belhare or Puma, for instance (Bickel 2003, Bickel et al. 2009: 559). The demonstratives *na* and *kha* have furthermore developed into the nominalizers *=na* and *=ha* which show exactly the same distribution with regard to number and the count/mass distinction as the demonstratives (cf. §13.3). On a final note, clause-initial coordinators like *nhaŋ*, *nnhaŋ*, *khoŋ* and *ŋkhoŋ* (all paraphrasable with ‘and then’ or ‘afterwards’) are demonstratives with ablative marking historically.

4.3.2 Demonstrative adverbs and quantifiers

The proximal-distal-anaphoric distinction is also present in a set of demonstrative adverbs and quantifiers, as summarized in Table 4.5. In (13) we can see some examples of anaphoric demonstrative adverbs based on the root *hon*. The sentence in (13a) is uttered at the end of a narrative, and the adverbs refer to the content and amount of the events just told.⁷ In (13b), *hoŋkha?niŋ* refers to the time at which the events took place (specified in a previous sentence), and in (13c), *honnhe* refers to the place just mentioned in the conversation.

⁷Quantifying expressions (both for amount and size) are the topic of §4.5 below.

- (13) a. *liŋkha=ci=ga* *lagi*, *hoŋkhaʔla=oŋ*,
 Linkha_clan_member=NSG=GEN for like_that=SEQ
hoŋkhiŋ=se
 that_much=RESTR
 ‘For the Linkhas, like that, that much only.’ [11_nrr_01.042]
- b. *hoŋkhaʔniŋ* *ten=beʔ=na* *yalumma*
 that_very_time village=LOC=NMLZ.SG talkative_granny
a-mum=ŋa *so-saŋ* *ka-ya:*
 1SG.POSS-grandmother=ERG look-SIM say[3SG]-PST
 ‘At that time, a talkative old lady, watching, it said: ...’ [41_leg_09.041]
- c. *honnhe=maŋ* *khe-me-ŋ=na*
 right_there=EMPH go-NPST-1SG=NMLZ.SG
 ‘I will go right there.’ (in a talk about Mamling village, a new person shows up and states that she will go right to that village)

	PROXIMAL	DISTAL	ANAPHORIC
LOCATION	<i>nhe</i> ‘here’	<i>nnhe</i> ‘there’	<i>honnhe</i> ‘where mentioned before’
TIME	<i>khaʔniŋ</i> ‘this time, now’	<i>ŋkhaʔniŋ ~ nnakhaʔniŋ</i> ‘that time, then’	<i>hoŋkhaʔniŋ</i> ‘right at that time’
MANNER	<i>khaʔla</i> ‘like this’	<i>ŋkhaʔla ~ nnakhaʔla</i> ‘like that’	<i>hoŋkhaʔla</i> ‘like mentioned before’
AMOUNT/ SIZE/ DEGREE	<i>khiŋ</i> ‘this much’/ ‘this big’	<i>ŋkhiŋ ~ nnakhiŋ</i> ‘that much’/ ‘that big’	<i>hoŋkhiŋ</i> ‘as much as mentioned before’/ ‘as big as mentioned before’

Table 4.5: Demonstrative adverbs and quantifiers

4.4 Indefinite reference

Yakkha does not have a morphologically distinct class of indefinite pronouns; all pronouns and demonstratives are definite. There are, however, several strategies to convey indefinite reference, including the use of simple nouns. Occasionally, the numeral *eko* ‘one’ is also used for this purpose. In example (14a), *eko* refers to an object in a future and hence irrealis statement; in (14b), *eko* refers to a specific (known to the speakers), but still indefinite person (i.e. not determined in a way that the hearer can identify the referent).

- (14) a. *uŋ mit-a: haku eko paŋ cok-ma*
 3SG think[3SG]-PST: now one house make-INF
ta-ya=na
 come[3SG]-PST=NMLZ.SG
 ‘He thought: Now the time has come to build a house.’ [27_nrr_06.006]
- b. *aniŋ=ga eko mamu*
 1PL.EXCL.POSS=GEN one girl
mas-a-by-a-ma=na
 get_lost[3SG]-PST-V2.GIVE-PST=NMLZ.SG
 ‘One of our girls got lost.’ [22_nrr_05.076]

Interrogatives can also function as indefinite pronouns, particularly in contexts where the referent is unknown to the speaker, as in (15). Interrogatives as indefinite pronouns may head noun phrases and can be modified (see (15a)); they may also modify nouns themselves (see (15b)). Using interrogatives for indefinite reference is a very common strategy cross-linguistically, which can be explained by the functional similarity of the two. Both express an information gap and vagueness at the utterance level (Haspelmath 1997: 170ff.).

- (15) a. *uŋci yuncamakekek i ŋ-ga-ya-masa*
 3NSG funny what 3PL-say-PST-PST.PRF
 ‘They had said something funny.’ [41_leg_09.029]
- b. *nhaja desan-masan n-da-me i=ha*
 and_then malicious_ghost 3PL-come-NPST what=NMLZ.NSG
 ‘And then, some scary ghosts will come.’ [28_cvs_04.266]

As (16) shows, information that is known to the speaker, but that she does not want to disclose, is also covered by the interrogative-indefinite polysemy.

- (16) *khy-a-ŋ=na=le, pheri kha?la=maŋ=ba, sala*
 go-PST-1SG=NMLZ.SG=CTR again like_this=EMPH=EMPH talk
i=ha i=ha ta-me
 what=NMLZ.NC what=NMLZ.NC come[3SG]-NPST
 ‘I just went, again, just like this, one talks about a little bit of this, a little bit of that.’ (the speaker explains why she had gone, i.e. to talk, without specifying what they talked about) [28_cvs_04.319]

Exhaustive reference, i.e. including all imaginable referents in a given context, is expressed by attaching the additive focus particle =*ca* to an interrogative pronoun (see (17)). This works with affirmative and with negated statements, in the latter case with the effect of exhaustive negation (see (17c)).

- (17) a. *i=ha camyonba=ca a-sap*
 what=NMLZ.NC food=ADD 1SG.POSS-[STEM]
thakt-wa-η=ha
 like-NPST[3.P]-1SG.A=NMLZ.NSG
 ‘I like any (kind of) food.’
- b. *eη=ga niη=be uηci i=ha cok-ma=ca*
 1PL.INCL.POSS=GEN name=LOC 3NSG what=NMLZ.NC do-INF=ADD
tayar n-leη-me
 ready 3PL-become-NPST
 ‘They will be ready to do anything in our name.’ [01_leg_07.084]
- c. *ηkha?la bhon lop ka i=ha=ca*
 like_that COND now 1SG what=NMLZ.NC=ADD
n-nakt-a-ηa-n,
 NEG-ask_for-IMP-1SG.P-NEG
 ‘If it is like that, do not ask me for anything right now.’
 [27_nrr_06.025]

Occasionally, the interrogative pronoun can also be doubled, often in combination with markers of focus or emphasis (see (18)).

- (18) a. *chippakekek=na i=na=i i=na*
 disgusting=NMLZ.SG what=NMLZ.SG=EMPH what=NMLZ.SG
lo?wa=na
 like=NMLZ.SG
 ‘like some disgusting, undefinable (thing)’ [40_leg_08.054]
- b. *eh, ikhiη mam=ha i=ya i=ya=le*
 oh, how_much big=NMLZ.NC what=NMLZ.NC what=NMLZ.NC=CTR
naη-me-c-u=ha baηniηgo ha?lo
 ask-NPST-DU-3.P=NMLZ.NC TOP EXCLA
 ‘Oh, (we had thought that) they would ask for something big!’
 (instead, they asked for a minor favor) [22_nrr_05.129]

Another strategy to express indefinite reference is to use an interrogative pronoun and to reduplicate the fully inflected verb (see (19)). Additionally, the interrogative phrase may host a topic marker =*ko*, which is not possible in interrogative utterances, since the inherent focus of interrogative phrases rules out topic marking on them. Both strategies help to disambiguate indefinite statements and interrogative utterances.

- (19) a. *a-yaŋ* *he?ne* *mas-a-by-a=ha*
 1SG.POSS-money where get_lost[3SG]-PST-V2.GIVE-PST=NMLZ.NC
mas-a-by-a=ha
 get_lost[3SG]-PST-V2.GIVE-PST=NMLZ.NC
 ‘My money got lost somewhere.’
- b. *surke=ŋa* *isa=ge=ko* *khus-u-co-ya* *khus-u-co-ya*
 Surke=ERG who=LOC=TOP steal-3.P-V2.EAT-PST steal-3.P-V2.EAT-PST
 ‘Surke (a dog) stole (food) from someone’s house.’
- c. *na* *inimma=be* *a-ppa* *a-ma=ci* *he?ne*
 this market=LOC 1SG.POSS-father 1SG.POSS-mother=NSG where
m-phaps-a-khy-a *m-phaps-a-khy-a*
 3PL-entangle-PST-V2.GO-PST 3PL-entangle-PST-V2.GO-PST
 ‘My parents got lost somewhere in this market.’⁸ [01_leg_07.163]

In practice, indefinite reference is often just realized by the omission of overt arguments, since overt personal pronouns are not required for accessible referents, not even for mentioning them for the first time. In (20), the referent talked about is introduced just by the verbal agreement: people talk about someone they saw walking away, without recognizing who it was.

- (20) *churuk* *uŋ-saŋ* *khy-a-ma=na.* *isa=?lo?*
 cigarette drink-SIM go[3SG]-PST-PRF=NMLZ.SG who=EXCLA
 ‘He has gone, smoking a cigarette. But who was it??’

4.5 Quantifiers, numerals and numeral classifiers

4.5.1 Quantification, size and degree

Yakkha has several quantifiers to indicate the amount, size, degree or intensity of the concepts expressed by nouns, adjectives or verbs. They are listed in Table 4.6, with the word classes with which they combine. The form *manpha* ‘much/very’ is special insofar as it may also express the degree of another quantifier, such as in *manpha pyak* ‘really much’. The table also includes deictic quantifiers and degree words.

The difference between *mimik* and *miyaŋ* (both: ‘a little’) is subtle. Both can be found with nouns (see (21)) or verbs (see (22)). Impressionistically, *miyaŋ* is the typical choice with nouns, while *mimik* is found more often with verbs. Both words may also appear as proforms heading noun phrases, as (21a) and (21c) show.

⁸The word *inimma* is a neologism, not widely in use.

YAKKHA	GLOSS	DOMAIN
<i>mi</i>	‘a little’	A
<i>miyaŋ</i>	‘a little’	N, V, A
<i>mimik</i>	‘a little’	N, V
<i>ghak</i>	‘all/whole’	N
<i>tuknuŋ</i>	‘completely’	V, A
<i>pyak</i>	‘much/ many/ very’	N, V, A
<i>maŋpha</i>	‘much/very’	A, QUANT
<i>ibibi</i>	‘very much/many’	N
<i>khin</i>	‘this much/this big’ (deictic)	N, V, A
<i>ŋkhiŋ</i>	‘that much/that big’ (deictic)	N, V, A
<i>hoŋkhiŋ</i>	‘as much/big as stated before’ (deictic)	N

Table 4.6: Quantifiers

- (21) a. *nda=ca miyaŋ=se uŋ-u!*
 2SG=ADD a_little=RESTR drink-3.P[IMP]
 ‘You too, drink, just a little!’
- b. *ka miyaŋ cama py-a-ŋ-eba*
 1SG a_little rice give-IMP-1SG.P-POL.IMP
 ‘Please give me a little rice.’
- c. *mimik, ŋ-khot-a-n bhoŋ=se kaniŋ mimik*
 a_little NEG-be_enough-PST-NEG COND=RESTR 1PL[ERG] a_little
in-u-ca-wa-m-ŋ=ha
 buy-3.P-V2.EAT-NPST-1PL.A-EXCL=NMLZ.NC
 ‘A little, only if is not enough we buy a little.’ [28_cvs_04.038]
- (22) a. *kam=ca cok-ma haʔlo, mimik,*
 work=ADD do-INF[DEONT] EXCLA a_little
 ‘One also has to work a little, ...’ [28_cvs_04.326]
- b. *miyaŋ ucun ŋ-get-u-ŋa-n=na loppi*
 a_little nice NEG-bring_up-3.P[PST]-EXCL-NEG=NMLZ.SG perhaps
 ‘Maybe I did not recall it (a story) so well.’ (lit. ‘I slightly did not recall it nicely, perhaps.’) [11_nrr_01.038]
- c. *miyaŋ taŋkhyan mopmop cok-t-a-by-a*
 a_little sky covered make-BEN-IMP-V2.GIVE-IMP
 ‘Please make the sky a little cloudy.’ [37_nrr_07.100]

Furthermore, *miyaŋ* is also found with adjectives and adverbs (see (23)).

- (23) *hoŋ=bhaŋ miyaŋ yoʔyorok*
 hole=ABL a_little across
 ‘a little further away from the hole’ [04_leg_03.011]

The quantifier *pyak* is used with count and mass nouns, and also with an intensifying function when it is combined with verbs and adverbs/adjectives. It signifies a high amount or degree of whatever is expressed by the head that it modifies. Thus, it can be rendered with English ‘much’, ‘many’ and ‘very’. Examples are provided below in (24) for the nominal domain and in (25) for verbal and adverbial/adjectival uses. In (25a), *pyak* is further emphasized by the deictic degree particle *khin*, yielding the exclamative ‘how much!’.

- (24) a. *pyak sakheʔwa=ci*
 many pigeon=NSG
 ‘many pigeons’ [01_leg_07.013]
- b. *pyak ŋ-gen-me-n*
 much NEG-bear_fruit[3SG]-NPST-NEG
 ‘Not much will ripen.’ [01_leg_07.122]
- c. *pyak yaŋ ub-wa-ŋ,*
 much money earn-NPST[3.P]-1SG.A
 ‘I will earn much money, ...’ [01_leg_07.190]
- (25) a. *ka khin pyak a-ma=ŋa u-luŋma*
 1SG this_much much 1SG.POSS-mother=ERG 3SG.POSS-liver
tuŋ-me-ŋ=na
 pour-NPST-1SG.P=NMLZ.SG
 ‘How much my mother loves me!’ [01_leg_07.079]
- b. *suku pyak cond-a-sy-a-ma*
 Suku much be_happy[3SG]-PST-MDDL-PST-PRF
 ‘Suku was very happy.’ [01_leg_07.151]
- c. *eko pyak thunđu=na yapmi*
 one very rich=NMLZ.SG person
 ‘a very rich man’ [04_leg_03.014]

Examples with *ibibi* (referring to an unspecific high quantity) are few; one is shown below in (26).

- (26) *wathaŋ=be ibibi yapmi=ci ta-saŋ wasi-saŋ khe-saŋ*
 water_tap=LOC many_many person=NSG come-SIM wash-SIM go-SIM
n-jok-ma-sy-a
 3PL-do-INF-AUX.PROG-PST

‘At the watertap, many many people kept coming, bathing, going.’
[40_leg_08.049]

The exhaustive quantifier *ghak* ‘all, whole’ can refer to an exhaustive number or amount, as in (27a), or to a complete unit, as in (27b) and (27c). The potential ambiguity is resolved by the verbal number agreement, which has to be plural in the exhaustive reading.

- (27) a. *ghak limbu m-bog-a-ma-ci=hon*,
all Limbu_person 3PL-get_up-PST-PRF-NSG=SEQ
‘As all the Limbus woke up, ...’ [22_nrr_05.027]
- b. *ghak ce?ya*
whole matter
‘the whole matter’ [01_leg_07.024]
- c. *ghak ten mag-a-khy-a*,
whole village burn[3SG]-PST-V2.GO-PST
‘The whole village burned down.’ [22_nrr_05.026]

The deictic quantifier *khin* has to be interpreted with respect to the utterance context, and it can refer to amount or size. Its use can be accompanied by gestures that indicate the size or the amount of some entity. Occasionally, the nominal comitative can be found attached to *khin* (see (28c)).

- (28) a. *khin tukkhi η-and-u*,
this_much pain 3PL.A-endure-3.P[PST]
‘They endured so much troubles, ...’ [14_nrr_02.07]
- b. *mi=na chun-d-e?na, khin*
small=NMLZ.SG shrink[3SG]-V2.GIVE-NPST=NMLZ.SG this_big
leη-d-e?na,
become[3SG]-V2.GIVE-NPST=NMLZ.SG
‘It shrinks, it becomes so small, ...’ [36_cvs_06.228]
- c. *khin=nun em-ma=niηa lak=nun leks-a=bi*
this_much=COM insert-INF=CTMP salty=COM become[3SG]-SBJV=IRR
‘If one inserted this much, it would become salty.’

In parallel to the demonstratives described in §4.3, *ηkhin* may express distal reference, i.e. ‘that much’ (compare (29a) and (29b)). The distal reference is also used in general statements, as in (29c).

- (29) a. *puchak khin=na sa=na!*
snake this_much=NMLZ.SG COP.PST[3SG]=NMLZ.SG
‘The snake was this big!’ (showing with own hands how big)

- b. *puchak* *ŋkhiŋ=na* *sa=na!*
 snake this_much=NMLZ.SG COP.PST[3SG]=NMLZ.SG
 ‘The snake was that big!’ (pointing to a piece of wood laying nearby)
- c. *cun=be* *ŋkhiŋ* *ucun* *m-phem-me-n=ha*
 cold=LOC that_much nice NEG-bloom[3SG]-NPST-NEG=NMLZ.NSG
 ‘In winter, it does not bloom so nicely.’ (=ha being used because of mass reference, blossoms in general, not a countable plurality of blossoms)

Anaphoric deixis is possible as well, using *hoŋkhiŋ*. The sentence in (30) follows a long enumeration of particular things the protagonist had to do, and *hoŋkhiŋ* refers back to them.

- (30) *nhaŋ* *nam* *wandik=ŋa* *lom-meʔ=niŋa* *hoŋkhiŋ*
 and_then sun next_day=INS come_out[3SG]-NPST=CTMP that_much
cok-ni-ma *pʌrne* *sa=bu*
 do-COMPL-INF[DEONT] having_to COP.PST[3SG]=HSY
 ‘And then, at the dawn of the next day, all that work had to be finished,
 people say.’ [11_nrr_01.010]

4.5.2 Numerals and classifiers

4.5.2.1 Cardinal numerals

The inherited Tibeto-Burman numerals have largely gotten lost in Kiranti (Ebert 1994). In Yakkha only the numerals *i* ‘one’, *hiC* ‘two’⁹ and *sum* ‘three’ are known. Another numeral for ‘one’ is found, which is the Nepali loan *eko*. It already replaces the Yakkha numeral *i* in several contexts. In counting, for instance, generally *eko* is used. Some fixed expressions, like *i len* ‘one day’, however, contain the Yakkha form. It is quite likely that the numeral *i* and the interrogative root *i* share a common origin.

Unlike in some Newari varieties,¹⁰ numeral classification does not play a prominent role in Kiranti languages. Yakkha has one numeral classifier *-paŋ* for human reference (cognate e.g. with Belhare *-baŋ*, Athpare *-paŋ*, Camling *-po*, Bantawa *-pok*, Hayu *-pu*). It is used only with the Yakkha numerals ‘two’ and ‘three’ (see (31)). Nonsingular marking of the head noun is frequent, but optional (discussed

⁹The capital /C/ stands for a plosive. As the numeral does not occur independently, and as it always assimilates to the following consonant, its place of articulation could not be determined.

¹⁰E.g. in Dolakha Newari (Genetti 2007: 220ff.) and the Newari spoken in Dulikhel (own observations).

in §5.2.1). For numerals above ‘three’, borrowed Nepali numerals and the Nepali classifiers *jana* for humans and (w)oṭa (often reduced to [ora]) for things, animals and sometimes children are used, or measuring units (see (32)).

- (31) a. *eko yapmi*
one person
‘one man/person’
b. *hip-paŋ babu(=ci)*
two-CLF.HUM boy(=NSG)
‘two boys’
c. *sum-baŋ mamu(=ci)*
three-CLF.HUM girl(=NSG)
‘three girls’
- (32) a. *bis ora khibak=ca*
twenty CLF rope=ADD
‘twenty ropes’ [11_nrr_01.012]
b. *ah, pāc, chasay rupiya*
yes five six_hundred rupee
‘five, six hundred rupees’ [28_cvs_04.075]

Since there is no classifier for non-human reference in Yakkha, the nonsingular marker =*ci* got reanalyzed in order to fill the position of the classifier (see (33)). This is the only instance where nonsingular =*ci* may occur inside a noun phrase.

- (33) a. *hic=ci yaŋ=ci*
two=NSG coin=NSG
‘two coins’ [26_tra_02.032]
b. *sum=ci ceŋya*
three=NSG word
‘three words’ [36_cvs_06.345]

Numeral expressions may also occur without a head noun; i.e. they can fill the structural position of a noun phrase (see (34)).

- (34) a. *hip-paŋ=se*
two-CLF.HUM=RESTR
‘only two people’ [36_cvs_06.578]
b. *hip-paŋ=ŋa ni-me-c-u=ha*
two-CLF.HUM=ERG know-NPST-DU-3.P=NMLZ.NC
‘The two of them know it (how to divinate).’ [22_nrr_05.081]

4.5.2.2 Counting events

Yakkha has a marker *-ma* to individuate and count events, i.e. to express ‘once’, ‘twice’, ‘three times’. It only occurs with the inherited (Tibeto-Burman) Yakkha numerals.

- (35) a. *ka i-ma pukt-a-ŋ=na*
 1SG one-COUNT jump-PST-1SG=NMLZ.SG
 ‘I jumped once.’
- b. *minuma=ŋa hip-ma sum-ma u-muk hoŋ=be*
 cat=ERG two-COUNT three-COUNT 3SG-hand hole=LOC
end-uks-u=ca mima lap-ma n-yas-uks-u-n
 insert-PRF-3.P=ADD mouse catch-INF NEG-be_able-PRF-3.P-NEG
 ‘Although the cat tried to put its paw into the hole two or three times,
 it could not catch the mouse.’ [04_leg_03.009]

4.6 Interrogative proforms

Yakkha interrogatives are based on the roots *i* and *he?*. Table 4.7 provides an overview. While *i* may also occur independently, with the meaning ‘what’ (referring to events, see (36)), *he?* always occurs with further morphological material. Some interrogatives are easily analyzable into a base plus case marker, nominalizer or clause linkage marker, but others are not transparent. Interrogatives may also function as indefinite pronouns (see §4.4 above).

- (36) *i leks-a?*
 what happen[3SG]-PST
 ‘What happened?’

When the requested bit of information has a nominal nature, the base *i* occurs with the nominalizers *=na* or *=ha ~ =ya* (see §13.3). For example, food is expected to consist of several different items, and will be requested with the nonsingular/non-countable form *=ha ~ =ya* (see (37a)). Interestingly, these nominalized forms can also occur inside a noun phrase (see (37b)). In this example, *ina* does not request the identification of one item out of a set, as *he?na* ‘which’ would. It rather implies that nothing is presupposed. The sentence is from a dowry negotiation, and the speakers here imply that there is nothing more to give to the bride. Similarly, when the identity of a person is requested but the speaker has no set of possible answers in mind, *isa* can occur inside a noun phrase (see (37c)). The context of this example was that some people were talking about the newly

YAKKHA	GLOSS
<i>i ~ ina ~ iya</i>	‘what’
<i>isa</i>	‘who’
<i>imin</i>	‘how’
<i>ikhiŋ</i>	‘how much’, ‘how many’, ‘how big’
<i>ijaŋ</i>	‘why’
<i>he?na ~ hetna</i>	‘which’ (INT=NMLZ)
<i>he?ne ~ hetne</i>	‘where’ (INT=LOC)
<i>he?naŋ ~ he?nhaŋ ~</i>	‘where from’ (INT=ABL)
<i>hetnaŋ ~ hetnhaŋ</i>	
<i>he?niŋ ~ hetniŋ</i>	‘when’ (INT=CTMP)

Table 4.7: Interrogatives

arrived researcher, and some other people who did not know about this fact (and did not see the researcher sitting around the corner) requested to know whom they were talking about.

- (37) a. *i=ya* *ca-ma*
 what=NMLZ.NSG eat-INF
 ‘What to eat?’
- b. *nani, i=na* *yubak?* *n-chimd-uks-u*
 child, what=NMLZ.SG property 3PL.A-ask-PRF-3.P
 ‘Child, what property? they asked her.’ [37_nrr_07.006]
- c. *isa* *mamu?*
 who girl
 ‘What girl (are you talking about)?’

The interrogatives *ina/iya* and *isa* may also head noun phrases (without modifiers), host nominal morphology and appear as predicates of interrogative copular clauses (see (38)). When a noun phrase is headed by an interrogative, modifying material is not allowed, except for clauses in which the interrogatives have an indefinite interpretation (discussed above in §4.4). The quantifying/degree interrogative *ikhiŋ* (derived from the demonstrative base *khiŋ* discussed in §4.5) may also occur in noun-modifying position (see (39)).

- (38) a. *i=ga lagi ta-ya-ga=na?*
 what=GEN for come-PST-2=NMLZ.SG
 ‘What did you come for?’
 b. *na i=ηa hab-a=na*
 this what=INS cry[3SG]-PST=NMLZ.SG
 ‘What made her cry?/Why does she cry?’ [13_cvs_02.050]
 c. *piccha=be isa=ηa ghak nis-wa=ha?*
 child(hood)=LOC who=ERG all know[3A;3.P]-NPST=NMLZ.NSG
 ‘Who knows everything in childhood?’ (rhetorical question)
 [40_leg_08.079]
 d. *kha yapmi=ci isa=ci?*
 these person=NSG who=NSG
 ‘Who are these people?’

- (39) a. *a-konma=ga biha ikhiη sal=be*
 1SG.POSS-MyZ=GEN marriage how_much year=LOC
leks-a=na?
 happen[3SG]-PST=NMLZ.SG
 ‘In which year was your (i.e. my aunt’s) marriage?’ [06_cvs_01.031]
 b. *ikhiη mi?wa hond-end-u-g=ha!*
 how_much tear uncover-V2.INSERT-3.P[PST]-2.A=NMLZ.NSG
 ‘How many tears you have shed!’¹¹ (exclamation) [37_nrr_07.111]

Naturally, the same applies to *he?na* ‘which’ (see (40)); it always requests the identity of some item from a presupposed set.

- (40) a. *he?na des wei-ka=na?*
 which country live[NPST]-2=NMLZ.SG
 ‘In which country do you live?’ [28_cvs_04.080]
 b. *he?na nis-u-ga=na?*
 which see-3.P[PST]-2.A=NMLZ.SG
 ‘Which one did you see?’

The interrogative *ikhiη* is furthermore often found in exclamations about size, amount or degree, lacking the interrogative function (see (41) and (39b)).

- (41) a. *lambu ikhiη mi=na, ammai ikhiη*
 road how_much small=NMLZ.SG oh_my! how_much
mi=na lambu lai!
 small=NMLZ.SG road EXCLA

¹¹The V2 *-end* indicates transitive motion downwards here.

‘How narrow the road is, oh my, what a narrow road!’

[36_cvs_06.223]

- b. *nna dewan-dhunga ban̄na lun̄khwak sahro cancan*
 that Dewan-stone so-called stone very high
sa-ma=na, pyak cancan, ikhiñ cancan!
 COP.PST-PRF=NMLZ.SG very high, how_much high
 ‘That rock called Dewan stone was really high, it was very high, how
 high it was!’ [37_nrr_07.042]
- c. *ikhiñ khumdu nam-my=a!*
 how_much tasty smell[3SG]-NPST=NMLZ.NC
 ‘How good it smells!’

Examples of the other interrogatives are shown in (42).

- (42) a. *daktar=ci=be khe?-ma paryo, hetniñ, hetne*
 doctor=NSG=LOC go-INF[DEONT] having_to when, where
khe?-ma=na=lai?
 go-INF=NMLZ.SG=EXCLA
 ‘He has to go to the doctor; when, and where to go?’ [36_cvs_06.179]
- b. *sondu kha?la=na cuñ=be tek me-wa?-le jal*
 sondu like_this=NMLZ.SG cold=LOC clothes NEG-wear-CVB net
kapt-uks-u-g=hoñ hetnañ tae-ka=na?
 carry-PRF-3.P[PST]-2.A=SEQ where_from come[NPST]-2=NMLZ.SG
 ‘Sondū, where do you come from, in this cold, without clothes, and
 carrying this net?’ [01_leg_07.232]
- c. *ka ijañ cem-me-ñ-ga=na?*
 1SG why cut-NPST-1SG.P-2.A=NMLZ.SG
 ‘Why do you cut me?’ [27_nrr_06.013]
- d. *kisa sañ-khek-khuwa, hetne*
 deer lead_by_rope-V2.CARRY.OFF-NMLZ where
sa-het-u=na ha?lo?
 lead_by_rope-V2.CARRY.OFF-3.P[PST]=NMLZ.SG EXCLA
 ‘The one who led the deer away, where did he lead it, by the way?’
 [19_pea_01.024]
- e. *aniñ=ga ten imin et-u-ga=na?*
 1PL.EXCL.POSS=GEN village how perceive-3.P[PST]-2.A=NMLZ.SG
 ‘How do you like our village?’

5 The noun phrase

The class of nouns is defined by the following structural features in Yakkha: nouns may head noun phrases and function as arguments of verbs without prior morphological derivations. Morphological categories typically associated with nouns are number and case. But since in Yakkha these operate on the phrasal level, the only category identifying lexical nouns is possessive inflection, marked by prefixes. Nouns typically refer to time-stable concepts like living beings, places or things, but also to some abstract or less time-stable concepts like *sakman* ‘famine’ or *ce?ya* ‘language, matter, word’.

The sections of this chapter deal with the formation of nouns and some properties of lexical nouns (§5.1), nominal morphology (§5.2), relational nouns (§5.3), and with the structure of the noun phrase (§5.4).

5.1 Noun formation and properties of lexical nouns

5.1.1 Lexical nominalizations

Yakkha has three basic nominalizing devices, discussed in more detail in Chapter 13. The common Tibeto-Burman nominalizers *-pa* and *-ma* are employed in lexical nominalization, deriving nouns that typically refer to types of persons, food, plants, animals and objects of material culture, e.g. *khikpa* ‘roasted feather dish’ (lit.: be bitter-NMLZ¹ (see Table 13.1 in Chapter 13 for more examples). These markers attach to verbal roots (as far as one can tell, as many of such nouns are opaque). Occasionally, the marker can also attach to nominal roots, deriving nouns that are semantically associated with the meaning of the root, such as *Yakkhaba* ‘Yakkha man, Yakkha person’.

As is common among Tibeto-Burman languages, Yakkha does not have a gender system; the nouns are not grouped into classes receiving distinct marking or triggering agreement across the noun phrase or the clause. In lexical nouns referring to persons, *-pa* marks default and male reference and *-ma* marks female reference.

¹This dish consists of roasted chicken feathers that are mixed with cooked rice.

This is particularly prominent in occupational titles (e.g. *thukkhuba/thukkhuma* referring to male and female tailors, respectively) and in kinship terms (e.g. *namba* and *namma* for male and female in-laws, respectively). The marker *-pa* is also the default choice when a group contains members of both sexes, although another frequent option is to use co-compounds in such cases, e.g. *yakkhaba-yakkhamaci* ‘the Yakkha men and women (~ the Yakkha people)’. In the current nominal lexicon (with 930 entries) there are 47 nouns ending in *-pa* and 120 nouns ending in *-ma*, mostly without being etymologically transparent, though.

Various zoological and botanical terms have lexicalized the markers *-ma* and *-pa*, so that such nouns invariably take one or the other marker. The lexeme for mouse is *mima*, for instance, and the lexeme for ‘tiger’ is *kiba*, regardless of whether it is a male tiger or a tigress.

There are also 73 nouns that end in *-wa*, a morpheme most probably cognate with *-pa*. These nouns are largely opaque; their roots cannot be determined any more. Examples are *hi?wa* ‘wind’, *chi?wa* ‘nettle’, *lagwa* ‘bat’, *takwa* ‘long needle’, *lupliwa* ‘earthquake’. Many of them are, again, botanical and zoological terms.²

Some nouns in Yakkha are lexicalized instances of headless relative clauses, e.g. *khuncakhuba* ‘thief’ (steal-eat-NMLZ), *hinkhuma* ‘wife’ (support-NMLZ), and *chemha* ‘liquor’ (be transparent-NMLZ), *tumna* ‘senior’ (ripen-NMLZ), *pakna* ‘junior’ (be raw-NMLZ). The nominalizers employed in these examples usually result in syntactic nominalizations, since they derive noun phrases, not nouns. They may either link attributive material to a head noun, or construct headless relative clauses (see Chapter 13 for a detailed description and abundant examples).

5.1.2 Compounding

Some kinds of nouns, particularly toponyms and nouns referring to kinship relations, botanical items and objects of material culture tend to be multimorphemic. The most common pattern found is nominal compounding. Verb-noun compounds are found marginally, but the verbal roots always show some additional morphological material which can be traced back to nominalizations or infinitives.

5.1.2.1 Co-compounds and sub-compounds

Both co-compounds (symmetric compounds, *dvandva* compounds) and sub-compounds (hierarchical compounds, *tatpurusha* compounds) can be found in Yakkha.³

²Nouns ending in *wa* can also be related to the lexeme for water or liquid in general, as it is the case in *kiwa* ‘oil’, see below.

³The terms *dvandva* and *tatpurusha* come from the Sanskrit grammatical tradition.

In sub-compounds, the first noun modifies the second, e.g. *laŋ-sup* ‘sock’ (foot-sheath). In co-compounds, two conceptually close nouns stand as representatives of a concept or group that is more general than these two nouns, e.g. *pa-pum* for ‘male ancestor’ (father-grandfather). The co-compounds generally refer to kinship relations or other groups of people. Table 5.1 and 5.2 provide more examples of each type.⁴ Nepali nouns may also participate in nominal compounding (marked by [NEP] in the table).⁵ Only sub-compounds combine Nepali roots with Yakkha roots.⁶

YAKKHA	GLOSS	COMPONENTS
<i>cottu-kektu</i>	‘ancestors’	great-grandfather great-great-grandfather
<i>pa-pum</i>	‘male ancestor’	father-grandfather
<i>ma-mum</i>	‘female ancestor’	mother-grandmother
<i>na-nuncha</i>	‘sisters’	elder sister-younger sibling
<i>yakkhaba-yakkhama</i>	‘Yakkha people’	Y. man-Y. woman

Table 5.1: Co-compounds

Co-compounds are common in the languages of the eastern regions of Eurasia. The structural difference between co-compounds and sub-compounds is also reflected in their prosody: while sub-compounds constitute one stress domain, in co-compounds each component carries own stress.⁷ The components of either type of compound are treated as one phrase morphologically; case and number (both are phrasal affixes in Yakkha) attach only once. Example (1a) shows a co-compound, (1b) shows a sub-compound. In cases of obligatorily possessed nouns, the possessive prefix attaches to both components of a co-compound, as in (1c).

⁴In current activities of language promotion, many neologisms are coined by some engaged speakers, like *mitniŋwa* ‘belief’, (think-mind). It cannot be said with certainty which of them will become established in the language. So far, they are only used in written materials. Nevertheless these neologisms show that nominal compounding is productive strategy to create new lexemes in Yakkha as it is spoken today.

⁵The lexeme *macchi* most probably has Maithili origin: *marchāi* ‘chili plant’. But it has undergone a substantial semantic shift, meaning both ‘chili plant’ and ‘hot sauce or pickles’ in Yakkha. In Belhare, its form is *marci* (Bickel 1997a).

⁶The nouns *muk* and *laŋ* refer to arm/hand and leg/foot, respectively.

⁷Cf. also Wälchli (2005) on the intermediate position of co-compounds between words and phrases: “There are very few languages where co-compounds are undoubtedly words.” (Wälchli 2005: 3).

YAKKHA	GLOSS	COMPONENTS
<i>yaŋchalumba-aphu</i>	‘third-born elder brother’	third-born-eB
<i>laŋ-sup</i>	‘socks’	foot-sheath
<i>laŋ-yok</i>	‘step, footprint’	foot-place
<i>maŋme-muŋ</i>	(a kind of mushroom)	eagle-mushroom
<i>luŋme-muŋ</i>	(a kind of mushroom)	needle-mushroom
<i>macchi-luŋkhwak</i>	‘mortar, grinding stone’	chili-stone
<i>maksa-khambo?maŋ</i>	‘blackberry’	bear-raspberry
<i>laŋ-khe?wa</i>	‘toe’	leg-finger
<i>laŋ-hup</i>	‘knee’	leg-thickening
<i>luŋpta-kham</i>	‘landslide’	disperse/bury.NMLZ-ground
<i>hamma-tek</i>	‘blanket’	cover/spread.INF-cloth
<i>laŋ-phila</i>	‘thigh’	leg-thigh[NEP]
<i>laŋ-tapi</i>	‘sole’	leg-hoof (probably [NEP])
<i>muk-tapi</i>	‘palm of hand’	arm-hoof (probably [NEP])
<i>dude-chepi</i>	‘milky onion’	milk[NEP](-e)-onion

Table 5.2: Sub-compounds

Since most co-compounds are from the domain of kinship, no instances of non-obligatorily possessed nouns with possessive marking in co-compounds could be found.

- (1) a. *tukkhuba tukkhuma=ci=ga sewa*
sick_man sick_woman=NSG=GEN service
‘service for sick men and women (i.e. medical service)’ [01_leg_07.300]
- b. *kanin lo?a wempha-babu=ci*
1PL like male_teenager-boy=NSG
‘lads like we (are)’ [41_leg_09.075]
- c. *u-ppa u-ma=ci=ca*
3G.POSS-father 3G.POSS-mother=NSG=ADD
‘her parents, too’ [01_leg_07.152]

Some sub-compounds appear in a fossilized possessive construction, such as *phak-kusa* ‘pork’, literally ‘pig’s meat’ or *wagusa* ‘chicken meat’, literally ‘chicken’s meat’.

In the rather complex kinship system with frequent instances of obligatory possession (cf. §4.2.3), the prefixes marking possession usually attach to the first

noun, as in *a-cya-mamu* ‘daughter (my child + girl)’ and *a-yem-namma* ‘father-in-law’s elder brother’s wife’ (my father’s elder brother’s wife + female in-law). Exceptions are found in the terminology for in-laws on the cousin level, e.g. *khoknima-a-ηoŋeŋma* ‘father-in-law’s sister’s daughter who is younger than EGO (father’s sister’s younger daughter + my-female-in-law)’.

5.1.2.2 Toponyms

Among the toponyms, oronyms usually end in *luŋ* (PTB *r-luŋ for ‘stone’, Matisoff 2003: 50). Examples are *Taŋwaluŋ* (Mt. Makalu), *Comluŋ* (Mt. Everest), *Phaktaŋluŋ* (shoulder-rock, Mt. Kumbhakarna) or *Namthaluŋma* (locally important rocks, connected to a mythical story).

Another syllable appearing in toponyms is *liŋ*. It is most probably related to PTB *b-liŋ for ‘forest/field’ (Matisoff 2003: 280) and occurs in names of Yakkha villages, e.g. *phakliŋ* (pig-field) or *mamliŋ* (big field), as it does in toponyms of other Tibeto-Burman languages, too.

Tibeto-Burman languages often have locational nominalizers referring to a place connected to some noun, e.g. in Classical Tibetan (Beyer 1992: 300). In Kiranti languages, one finds e.g. *-khom* ~ *-khop* in Thulung (cognate to Yakkha *kham* ‘ground’), and *-den* in Limbu (cognate to Yakkha *ten* ‘village’, Ebert 1994: 89). Yakkha employs another noun for this strategy, namely *laŋ*, with the lexical meaning ‘foot’. It is however not a nominalizer; *laŋ* cannot be used to nominalize propositions, as in ‘the place where he cut the meat’. In compounds, *laŋ* designates the area surrounding an object or characterized by it, as e.g. in *khibulaŋ* ‘area around walnut tree’ or *tonalaŋ* ‘uphill area’. One also finds lexicalized instances, such as in (2), or metaphorical extensions, as in *pheksaŋlaŋ* ‘malicious wizard’ (left-foot/left-side). It does not come as surprise that toponyms contain this marker, e.g. *lokphalaŋ* ‘grove of lokpha bamboo (a huge kind of bamboo)’. However, the number of examples in the existing data do not allow conclusions about the productivity of *laŋ*.

- (2) *maŋcwalaŋ=be khy-a-η*
 water_tap=LOC go-PST-1SG
 ‘I went to the public water tap.’ [40_leg_08.048]

This compounding strategy has developed from a relational noun construction (see (3) and §5.2.3 below). The relational noun *laŋ* locates an object (the FIGURE) next to the lower part of another object (the GROUND).

- (3) *siŋ=ga* *u-laŋ=be*
 tree=GEN 3SG.POSS-foot=LOC
 ‘below the tree’ (the area around the tree, not right below its roots, and not
 right next to the stem either)

5.1.2.3 Botanical terms

Many botanical terms end in *siŋ* for ‘tree’ or in *phuŋ* for ‘flower’, e.g. *likliŋphuŋ* ‘mugwort’ and *kekpusiŋ* ‘bull oak’.

5.1.2.4 Nouns referring to liquids

Above in §5.1.1, nouns in *-wa* were discussed as fossilized nominalizations. A homophonous morpheme with the etymological meaning of ‘water’ is found in 14 lexemes referring to liquids, such as *cuwa* ‘beer’, *naŋwa* ‘glacier’ (snow-water), *casakwa* ‘water in which uncooked rice has been washed’ (rice-water), *lithu?wa* ‘sperm’ and *mikwa* ‘tear’ (eye-water). Even the lexeme *maŋcwa* ‘water’, is historically complex.

5.1.2.5 Lexical diminutives

Diminutive markers have been reported for various Kiranti languages (see Doornenbal (2009: 67) on Bantawa, Ebert (1997: 95) on Athpare, Rutgers (1998: 85) on Yamphu). Yakkha, too, has a class of nouns ending in a morpheme *-lik* ~ *-lek* (without any independent meaning) and referring to small things or animals, e.g. *siblik* ‘bedbug’, *taŋcukulik* ‘pigtail, tuft of hair’, *yaŋlik* ‘seed’, *khelek* ‘ant’, *phokcukulik* ‘navel’, *mongalik* ‘garden lizard’, *makchiŋgilek* ‘charcoal’ and *poŋgalik* ‘bud’. This is not a productive derivation process, for two reasons: firstly, independent nouns like *sib* or *yaŋ* do not exist, and secondly, *-lik* it cannot attach to any noun to indicate small size.

Another diminutive-like marker, occurring only with animate nouns, is *cya* ~ *cyak* ‘child’, and it is found in terms for young animals, in a fossilized possessive construction, e.g. *phakkucyak* (*phak=ka u-cya*) ‘piglet’ or *wagucya* ‘chick’ (*wa=ga u-cya*).

5.1.2.6 Rhyming in compounds

Yakkha has a few nominal compounds that are built with rhymes and so-called echo words as they are known in Nepali, where this is quite a productive strategy to express associative plurality (e.g. *biskut-siskut* ‘cookies and the like’). In

Yakkha, there is for instance the name of a mythological bird, *Selele-Phelele*.⁸ Further examples are *kamnibak-chimnibak* ‘friends’ (no independent meaning for *chimnibak* could be established), *yubak-thingak* ‘goods, property’ (no independent meaning for *thingak* either) or *sidhak-pandhak* ‘traditional, herbal medicine’ (*sidhak* refers to medicine in general, *pandhak* could have been derived from *paŋ* ‘house’). Rhyme-based morphology like reduplication and also triplication is very productive in adjectives and adverbials in Yakkha (see §6.4).

5.1.3 Proper nouns and teknonymy

Proper nouns identify a unique person, a place or some other entity, such as *Mis-saŋ* (a female name), *Homboŋ* (the name of a village) or *Kirant Yakkha Chumma* (the name of a social association). They differ from other nouns in that they rarely form compounds, and when marked as nonsingular, they only allow associative interpretations (X and her/his folks, X and the like).

One subgroup of proper nouns are teknonyms, i.e. names of adults derived from the name of their child, usually their first child. Referring to someone as father or mother of their eldest child is the respectful way to address or refer to older people, instead of using their names. The more frequent choice is apparently the name of the eldest son, but exceptions in favor of the eldest daughter’s name are possible. Etymologically, teknonyms are possessive phrases, with the genitive =*ga* and the third person singular possessive prefix *u-* merged into a single syllable [gu], and the head nouns *ma* ‘mother’ and (*p*)*pa* ‘father’ (with geminated /p/ because of the possessive prefix).⁹ The resulting word constitutes a single stress domain, with the first syllable carrying main stress. In case the child’s name does not end in a vowel, an epenthetic element *-e* is inserted. Examples are provided in (4).

- (4) a. *Ram-e-guppa*
Ram-EPEN-TEK.GEN.M
‘Father of Ram’
b. *Bal-e-guma*
Bal-EPEN-TEK.GEN.F
‘Mother of Bal’

⁸Cf. file 21_nrr_04 of the corpus.

⁹The nasal in the noun *ma*, in contrast, does not undergo gemination. The geminated *umma* that was offered by me in an elicitation earned the comment that this sounded like Limbu, not Yakkha.

5.1.4 The count/mass distinction

Mass nouns in Yakkha usually allow both readings, either referring to a concept as such, or to a unit or bounded quantity of that concept. Hence, the same lexeme may occur in different syntactic contexts without any morphological change or the addition of some classifying element. The verbal person marking, however, distinguishes the feature ‘mass’ from both singular and nonsingular. Mass nouns trigger the marker *=ha* on the verb (which is also found with nonsingular number). But with regard to all other verbal markers, the mass nouns trigger singular morphology. Neither the nonsingular marker *-ci* nor the singular clitic *=na* are possible on the verb when the nouns have a mass interpretation.

Compare the two uses of the words *yaŋ* ‘money, coin’ and *chem* ‘music, song’ in (5) and (6). In the (a) examples, these nouns have countable reference, as is evident from the presence of numerals and from the fact that they trigger number agreement on the verb (nonsingular *-ci* in (5a) and singular *=na* in (6a)). In the (b) examples, the nouns have mass reference, and hence do not take the nonsingular marker *=ci*. In fact, adding *=ci* would change the interpretation to nonsingular. The quantifier *pyak* in (5b) is not of help in determining semantic or structural differences, as it may have both a mass reading ‘much’ and a nonsingular reading ‘many’.

- (5) a. *hic=ci yaŋ=ci n-yuks-wa-ci=hoŋ*,
two=NSG coin=NSG 3PL.A-put_down-NPST-NSG.P=SEQ
‘After they will put down two coins, ...’ [26_tra_02.032]
- b. *pyak yaŋ ub-w=ha*
much money earn-NPST[3SG.A>3.P]=NMLZ.NC
‘She earns a lot of money.’
- (6) a. *ka chem chept-wa-ŋ=na*
1SG[ERG] song write-NPST[3.P]-1SG.A=NMLZ.SG
‘I will write a song.’
- b. *chem(*=ci) end-u-g=ha=i?*
music(*=nsg) apply-3.P[PST]-2.A=NMLZ.NC=Q
‘Did you turn on the music?’
(It is clear from the context that the speaker did not refer to a plurality of songs, but to the sound coming out of the radio.)

As stated above, Yakkha does not have to add classifiers to distinguish mass vs. count reference. There are, however, two markers that may convey this distinction, namely the nominalizers *=na* and *=ha* in attributivizing function (etymolog-

ically related to the verb-final markers shown in (6)). In (7), while =*na* implies a bounded quantity, =*ha* implies mass reference. This distinction is parallel to the distinction in the demonstratives discussed in §4.3.

- (7) a. *to=na* *cuwa*
uphill=NMLZ.SG beer
‘the (bowl of) beer standing uphill’
- b. *to=ha* *cuwa*
uphill=NMLZ.NSG beer
‘the beer uphill (i.e. the beer of the uphill households)’

A non-exhaustive list of nouns that allow both count and mass reference is provided in Table 5.3.

YAKKHA	GLOSS
<i>cama</i>	‘(portion of) cooked rice’
<i>ceʔya</i>	‘matter, language, word’
<i>chem</i>	‘music, song’
<i>chemha</i>	‘(glass of) liquor’
<i>cuwa</i>	‘(glass/bowl of) beer’
<i>kham</i>	‘ground, mud, (plot of) farm land’
<i>khyu</i>	‘(portion of) cooked meat or vegetables’
<i>maŋcwa</i>	‘(container with) water’
<i>sa</i>	‘(portion of) meat’
<i>yaŋ</i>	‘money, coin’
<i>siŋ</i>	‘wood, tree’
<i>tamphwak</i>	‘hair’

Table 5.3: Nouns with both count and mass reference

5.1.5 Inherent duality

Nouns that typically denote pairs, like legs, eyes, buttocks (but not inner organs like lungs and kidneys), usually occur with the nonsingular marker =*ci*. With regard to verbal agreement, they trigger plural instead of the expected dual marking. Apparently there is no need to maintain the plural/dual distinction with referents typically occurring in sets of two (see (8)).

- (8) *a-tokcali=ci* *n-dug=ha=ci* (**tugaciha*)
 1SG.POSS-buttock=NSG 3PL-hurt-NMLZ.NSG=NSG
 ‘My bottom hurts.’

5.2 Nominal inflectional morphology

Nominal inflectional categories in Yakkha are (i) number, (ii) case and (iii) possession.¹⁰ Number and case are generally encoded by clitics (phrasal suffixes). They do not trigger agreement across the noun phrase. The case markers may also attach to nominalized phrases or to anything else in nominal function (see §13.3 for examples). The only case that may appear phrase-internally is the comitative case, coordinating two nominal heads to form a noun phrase. Since case and number markers operate on the phrasal level, the third category, possessor agreement, is the only category that applies exclusively to lexical nouns. It is encoded by prefixes attaching directly to nouns (discussed together with the pronouns in §4.2).

Further markers (particles) are possible on noun phrases, but since they pertain to information structure, the reader is referred to Chapter 17 for their discussion.

5.2.1 Number

Yakkha distinguishes singular, dual and plural in the verbal domain and in pronouns, but only singular and nonsingular in nouns. Singular number is unmarked. The nonsingular marker is the phrasal suffix *=ci*, denoting that there are multiple instances of the item in question, or that the item/person in question is accompanied by similar items/person (associative plurality). It attaches to the rightmost element of the noun phrase (usually the nominal head), and thus has scope over the whole noun phrase. The marker does not appear inside the noun phrase, with the exception of numerals, discussed in §4.5.2. Case markers follow the number marker (see (9)).

- (9) a. *kucuma*
 dog
 ‘a/the dog’
 b. *ghak kucuma=ci=be*
 all dog=NSG=LOC
 ‘at/to all the dogs’

¹⁰‘Inflectional’ in the sense of ‘regularly responsive to the grammatical environment’ (Bickel & Nichols 2007).

The status of *=ci* as a phrasal clitic is clearly confirmed when looking at headless noun phrases or noun phrases where the order of head and modifier is reversed for information-structural reasons. The nonsingular marker may follow a genitive marker (see (10a)) or (syntactic) nominalizers (see (10b)), devices that would link modifying material to a head noun if there was one. In (10c), attributive material follows the head noun for information-structural reasons, and since it is the rightmost element, the nonsingular marker attaches to it.

- (10) a. *heko=na paʈi=ga=ci*
 other=NMLZ.SG side=GEN=NSG
 ‘those (children) from the other side (i.e. the other wife)’
 [06_cvs_01.054]
- b. *hau, kha=go, eŋ=ga yapmi*
 EXCLA these=TOP 1PL.INCL.POSS=GEN person
loʔa=ha=ci=ca
 like=NMLZ.NSG=NSG=ADD
 ‘Oh, these guys, they are like our people, too.’
 [22_nrr_05.044]
- c. *pahuna ta-khuba=ci*
 guest come-NMLZ=NSG
 ‘the guests who are coming’
 [25_tra_01.063]

5.2.1.1 Omission of nonsingular *=ci*

Number marking on nouns is not obligatory. With non-human reference it is frequently omitted. In (11a), it is clear from the context, from the demonstrative *ŋkha* and from the verbal agreement that *luŋkhwak* refers to more than one stone. With human referents, number marking cannot be omitted so easily (see (11b)). Another factor interacts with animacy/humanness here, namely generic vs. specific reference. In (11c), there is nonsingular human reference, but in a generic sense, referring to abstract classifications of people (those with whom one is/is not allowed to eat, in accordance with Hindu social law).¹¹ Here, the number marking can be omitted, in contrast to (b) where the noun refers to a specific group of people, namely the speaker’s friends. With specific human reference, nonsingular marking was omitted only in songs, a genre which is expected to show deviations from spoken language, due to other constraints like rhythm and rhyming.

¹¹The Yakkha belong to the Kiranti cultural sphere, but the past centuries of Hindu dominance have left their mark on the social organization of many Tibeto-Burman groups in Nepal.

- (11) a. *ηkha mamu=ci=ηa ηkha luηkhwak*
 those girl=NSG=ERG those stone
n-leks-u-ci=ha=bu
 3PL.A-turn_over-3.P[PST]-3NSG.P=NMLZ.NSG=HSY
 ‘Those girls have turned around those rocks, it is said.’ [37_nrr_07.118]
- b. **a-kamnibak chimd-u-η-ci-η=ha*
 1SG.POSS-friend ask-3.P[PST]-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 Intended: ‘I asked my friends.’
- c. *ca-m=ha yapmi men-ja-m=ha*
 eat-INF[DEONT]=NMLZ.NSG people NEG-eat-INF[DEONT]=NMLZ.NSG
yapmi, kha imin=ha=ci?
 people these how=NMLZ.NSG=NSG
 ‘(Are they) people with whom we should eat, or with whom we should not eat, of what kind (are they)?’ [22_nrr_05.040]

Number marking can also be omitted when a numeral is present in the noun phrase (see (12a) and (12b)). However, instances with overt nonsingular marking, as in example (12c), are far more frequent.

- (12) a. *hip-paη babu*
 two-CLF.HUM boy
 ‘two boys’
- b. *hip-paη paghyam-maghyam*
 two-CLF.HUM old_man-old_woman
 ‘an old couple’ [01_leg_07.280]
- c. *sum-baη phak-khuba yapmi=ci*
 three-CLF.HUM help-NMLZ person=NSG
 ‘three servants’ [04_leg_03.015]

5.2.1.2 Associative interpretations of nonsingular marking

Nonsingular marking can be interpreted associatively, referring to people who can be associated to the respective noun (see (13a) and (13b)), a feature that is also found in other languages spoken in this area, e.g. in Newari (Genetti 2007: 98) and in Nepali (own observations). Occasionally, objects with nonsingular marking can also be found with an associative interpretation (see (13c)), but this is rare at least in the current corpus; one rather finds enumerations of various objects than associative plural marking if a plurality of items is given.

- (13) a. *a-konma=ci=nuη=le weʔ=na?*
 1SG.POSS-MyZ=NSG=COM=CTR exist[3SG]=NMLZ.SG

- ‘Oh, she lives with my aunt and her people?’ [06_cvs_01.074]
- b. *Lila didi=ci*
 Lila elder_sister=NSG
 ‘Sister Lila and her family’ [13_cvs_02.059]
- c. *i=ha i=ha yuncamakekek ceʔya*
 what=NMLZ.NC what=NMLZ.NC funny matter
chumma=ci n-leks-a
 assembly=NSG 3PL-happen-PST
 ‘Various funny incidents, meetings and the like occurred there.’ [41_leg_09.008]

5.2.2 Core case markers (Group I)

Case in the classical sense is understood as the morphological marking on a noun or a noun phrase that indicates its syntactic relatedness either to a predicate (arguments or circumstantial participants) or to another noun (in the case of the genitive and the comitative). Yakkha distinguishes case clitics that operate on the noun phrase level, marking verbal arguments (Group I, discussed in this section), and markers that are more flexible functionally, and also less dependent phonologically (Group II, discussed in §5.2.3).

Case marking (ergative, genitive, comitative, equative) may also appear on dependent clauses that are often, but not necessarily, nominalized, as will be shown below and in Chapter 15 on complementation and Chapter 14 on adverbial clause linkage. The parallelism between case markers and clause linkage markers is well-known in Kiranti and Tibeto-Burman in general (Genetti 1986, DeLancey 1985, Ebert 1993).¹²

Group I distinguishes seven cases, as shown in Table 5.4. Case, like number, is marked by enclitics in Yakkha, except for the nominative, which is the functionally and morphologically unmarked case in Yakkha. Since the case suffixes operate on the phrasal level, they attach to the rightmost element of the noun phrase. The case markers that start in a plosive have voiced allomorphs intervocalically and after nasals.

We know from other Kiranti languages that case markers can be stacked to yield more specific functions (e.g. Ebert (1994: 81), Dirksmeyer (2008: 6), Schikowski (2013: 26)). Generally, composite case markers are common in Tibeto-Burman languages (DeLancey 1985: 60). In Yakkha, the locative or the ablative case marker

¹²It is, however, not clear yet whether there was a historical development from nominal case markers to clause linkage markers, or whether this parallelism is original to the system.

CASE	MARKER	FUNCTION
nominative	Ø	intransitive subject, transitive patient, ditransitive theme and goal, citation form, location (restricted use), copular topic and predicate
ergative	= <i>ŋa</i>	transitive subject
instrumental	= <i>ŋa</i>	instrument, ditransitive theme, temporal reference
genitive	= <i>ka</i>	possession, material
locative	= <i>pe</i>	location, ditransitive recipients and goals, temporal reference
ablative	= <i>phaŋ</i>	source arguments
comitative	= <i>nun</i>	coordination, associated referents, source arguments of some verbs

Table 5.4: Case markers (Group I)

can be added to the genitive of a proper noun to yield the meaning ‘at/from X’s place’. The ablative is also historically complex (see §5.2.2.6 below).

Several Kiranti languages have a (generally optional) dative marker *-lai* (e.g. Bantawa (Doornenbal 2009), Puma (Bickel et al. 2007b), Camling, Athpare and Thulung (Ebert 1994)), homonymous with the Nepali dative marker *-lāi* and probably a loan. Yakkha, however, does not employ this marker. It uses other strategies to mark semantic roles typically associated with dative marking: recipients and goals are either in the nominative or in the locative, and experiencers appear in various frames of argument realization, most prominently the Experiencer-as-Possessor frame.

In the following, the cases of Group I and their functions will be introduced. More detailed information on argument realization and transitivity is found in Chapter 11.

5.2.2.1 Nominative (unmarked)

The nominative is morphologically and functionally the unmarked case in Yakkha.¹³ Participants in the nominative appear in their citation form, without any further marking. Intransitive subjects (S), transitive patients (P), ditransitive theme (T)

¹³Functional unmarkedness does not imply morphological unmarkedness, as research on marked-S languages has shown (Handsuh 2011, Brown 2001). In the Yakkha case system, morphological and functional unmarkedness coincide.

and goal arguments (G), topic and comment of copular clauses, and to a certain extent also locations can be in the nominative and thus unmarked in Yakkha.¹⁴ Example (14) shows S, P, T and G arguments in the nominative.¹⁵

- (14) a. *ka maŋcwa=be khe-me-ŋ=na*
 1SG water=LOC go-NPST-1SG=NMLZ.SG
 ‘I go to fetch water.’
 b. *nasa=ci ŋ-und-wa-ci*
 fish=NSG 3PL.A-pull_out-NPST-3NSG.P
 ‘(They) pull out the fish.’
 c. *ka nda caklet pi-me?-nen=na*
 1SG[ERG] 2SG sweet give-NPST-1>2=NMLZ.SG
 ‘I will give you a sweet.’

Yakkha shows a typologically common nominative/ergative syncretism: transitive subjects that are represented by a first or second person pronoun always appear unmarked (cf. §5.2.2.2).

Furthermore, both topic and comment in identificational copular constructions (see (15)), and the FIGURE in existential/locative copular constructions (see (15c)) are in the nominative.

- (15) a. *na ak=ka paŋ (om)*
 this 1SG.POSS=GEN house (COP)
 ‘This is my house.’
 b. *ka=go arsale le?lo!*
 1SG=TOP person_from_year_eight CTR.EXCLA
 ‘I was born in the year eight (B.S.), man!’ [06_cvs_01.027]

¹⁴With the discovery of ergativity, the term ‘absolutive’ came into use relatively recently to refer to the case of intransitive subjects and transitive objects when these have the same case (see McGregor (2009) and Haspelmath (2009) for summaries of the historical gestation of the term ‘ergative’). Since then, research on ergativity has revealed that the system is far from uniform, and optional in many languages, other factors such as reference and information structure playing a greater role than had been expected. Haspelmath mentions the problem that the terminology nominative-accusative-ergative-absolutive refers to an ideal system which is rarely found (Haspelmath 2009: 513). Both nominative and absolutive refer to the functionally unmarked case in a system, and their application usually extends well beyond marking S and P arguments. Therefore, I do not see the need to maintain the distinction between the terms ‘nominative’ and ‘absolutive’, since the unmarked case in an ergative system and the unmarked case in an accusative system have probably more shared properties than properties distinguishing them. Since ‘nominative’ is the older term, it will be used in this work.

¹⁵To keep the glosses as short and straightforward as possible, the nominative is generally not glossed.

- c. *nnakha=e manɕwa=ca m-ma-ya-n*
 that=LOC water=ADD NEG-be-PST[3SG]-NEG
 ‘There was no water, too.’ [42_leg_10.009]

Nominative arguments are also found in motion verb constructions, where a locative would be expected on the goal of the movement (see (16)). This option exists only for typical and frequent goals of movement, such as villages, work places, a school, a weekly market etc. The respective nouns are never modified (see (17a), which was elicited in analogy to a sentence from the corpus, and which is well-formed only with a locative). Complements of verbs stating existence or location (‘be at X’) can generally not occur unmarked, but exceptions in the colloquial register are possible (see (17b)). The nouns in the nominative thus share features with incorporated nouns, although on other grounds they are not incorporated. Since the nouns mostly refer to names of places or landmarks, they refer to highly individuated participants, while incorporated nouns are often rather generic.

- (16) a. *Poklabun tas-a-ma-c-u=hoŋ*,
 Poklabung[LOC] arrive-PST-PRF-DU-3.P=SEQ
 ‘When they arrived in Poklabung, ...’ [22_nrr_05.017]
 b. *ka thunɕkha khy-a-ŋ=niŋ*,
 1SG steep_slope[LOC] go-PST-1SG=CTMP
 ‘When I was heading to the steep slopes, ...’ [40_leg_08.036]
- (17) a. *unɕi=ga ten*(=be) khy-a-ma-ci*,
 3NSG=GEN village*(=LOC) go-PST-PRF-DU
 ‘They went to their village, ...’ [22_nrr_05.037]
 b. *tumok wai?-ŋa=na*
 Tumok[LOC] be[NPST]-1SG=NMLZ.SG
 ‘I am in Tumok.’ (said on the phone)

5.2.2.2 Ergative: =*ŋa*

Transitive and ditransitive A arguments are marked by the ergative =*ŋa* (see (18)), except when they are first or second person pronouns, which display an ergative/nominative syncretism (see (19)).

- (18) a. *na, jaba, na mamu=ŋa lunɕhwak pok-ma*
 this when this girl=ERG stone raise-INF
n-yas-u-n,
 NEG-be_able-3.P[PST]-NEG
 ‘This one, when this girl could not raise the stone, ...’ [37_nrr_07.039]

- b. *ka a-ma=ŋa khaʔla ly-a-ŋ:*
 1SG 1SG.POSS-mother=ERG like_this tell[3SG.A]-PST-1SG.P
 ‘Mother told me the following: ...’ [42_leg_10.011]
- (19) a. *jeppa nna len ka a-ma=nun a-na=ga*
 really that day 1SG[ERG] 1SG.POSS-mother=COM 1SG.POSS-eZ=GEN
ceʔya y-yen-u-ŋa-n=na=ŋa,
 matter NEG-obey-3.P[PST]-1SG.A-NEG=NMLZ.SG=ERG.CL
 ‘Really, that day, because I did not listen to my mother’s and my elder
 sister’s warnings, ...’ [42_leg_10.051]
- b. *iya nniŋda, eh, njiŋda yon-me-c-u-ga,*
 what 2PL[ERG] oh 2DU[ERG] search-NPST-DU-3.P-2.A
 ‘Whatever you (dual) look for, ...’¹⁶ [22_nrr_05.084]

In Yakkha, first or second person reference can also be instantiated by full nouns instead of pronouns, which is unusual from the perspective of Indo-European languages. One may have a sentence with first or second person verbal person marking, but the structural position of the pronoun is occupied by a noun, as shown in (20).¹⁷ In such participant configurations, there is overt ergative marking on the noun. To make a long story short, the differential agent marking it is mainly determined by word class, but also by reference.

- (20) a. *phu=na mamu=ŋa yakkha ceʔya nis-wa-g=hoŋ*
 white=NMLZ.SG girl=ERG Yakkha language know-NPST-2=SEQ
maŋ-di-me-ŋ=na!
 be_surprised-V2.GIVE-NPST-1SG=NMLZ.SG
 ‘I am surprised since you, a white girl, know Yakkha!’
- b. *a-phaŋ=ŋa men=na, a-koŋma=ŋa=le*
 1SG.POSS-MyZH=ERG NEG.COP[3]=NMLZ.SG 1SG.POSS-MyZ=ERG=CTR
ta-ga=na raecha
 bring[PST;3.P]-2.A=NMLZ.SG MIR
 ‘Not the uncle, but you, auntie, really brought her here (the second
 wife)!’ [06_cvs_01.042]

The examples in (21) show that the ergative marker attaches to the final element of the phrase, whether two nouns are conjoined by a comitative (see (21a) and (b)) or whether the final element is a participle, as in (21c).¹⁸

¹⁶The speaker is correcting himself from plural to dual pronoun.

¹⁷Flexible agreement is discussed in §12.4. On the principles behind agreement in Tibeto-Burman see Bickel (2000).

¹⁸The comitative marker may function as a coordinator, much like English ‘and’. The verbal person marking is triggered by the sum of the number features of both nouns (dual in (a), and

- (21) a. *lalubaŋ=nun phalubaŋ=ŋa mamliŋ tas-a-ma-c-u*
Lalubang=COM Phalubang=ERG Mamling arrive-PST-PRF-DU-3.P
‘Lalubang and Phalubang arrived in Mamling.’ [22_nrr_05.041]
- b. *a-ma=nun a-na=ŋa*
1SG.POSS-mother=COM 1SG.POSS-sister=ERG
y-yog-a-n=niŋ=bi,
NEG-search[3A;1.P]-SBJV-NEG=CTMP=IRR
‘If my mother and sister had not searched for me, ...’ [42_leg_10.052]
- c. *beuli=ga=ca u-nuncha p̣arne=ŋa chata*
bride=GEN=ADD 3SG.POSS-younger_sibling falling=ERG umbrella
ham-met-wa
spread-CAUS-NPST[3A;3.P]
‘Someone who is a younger sister of the bride, too, spreads an umbrella over her.’ [25_tra_01.053]

For several Tibeto-Burman languages, ergative marking has been described as ‘optional’ and depending on pragmatic factors (see e.g. LaPolla (1995) for a comparative account, Tournadre (1991) on Lhasa Tibetan, Coupe (2007) on Mongsen Ao, Hyslop (2011) on Kurtöp). Yakkha, however, has a strictly grammaticalized system of ergative marking; the ergative is obligatory on A arguments (under the above-mentioned conditions), which is in line with the findings on other Kiranti languages. Doornenbal (2009: 74) notes the same for Bantawa. Bickel (2003: 549) mentions an alignment split in Belhare that leaves first person singular pronouns unmarked.¹⁹ The differential marking found on first and second person pronouns in Yakkha is determined by reference and word class, not by pragmatics.

On a final note, the ergative marker is also employed in adverbial clause linkage (see Chapter 14).

5.2.2.3 Instrumental: =ŋ(a)

Yakkha exhibits an ergative-instrumental syncretism, which is not unusual, especially not in Kiranti. By formal criteria, except for one exception discussed below, the two cases cannot be distinguished. Functionally, they are distinct, however: the ergative marks animate agent arguments, while the instrumental typically

nonsingular in (b)). The negated form *yyogan* is found in all scenarios with third person acting on first, except for 3SG>1SG.

¹⁹Also non-Kiranti languages like Newari, Chepang and Kham have ‘stable’ grammaticalized ergative marking (LaPolla 1995), while this is not as clear for Classical Tibetan (DeLancey 2011c).

marks inanimate participants like instruments (22a), effectors, forces and causes (22b).

- (22) a. *chom=na phiswak=ŋa hot-haks-u=na*
 pointed=NMLZ.SG knife=INS pierce-V2.SEND-3.P[PST]=NMLZ.SG
 ‘He pierced it with a pointed knife.’
 b. *kisi?ma=ŋa solop miyaŋ eg-haks-uks-u*
 fear=INS immediately a_little break-V2.SEND-PRF-3.P[PST]
 ‘Out of fear, he immediately broke off a little (from the stick).’
 [04_leg_03.023]

The medium for communication is also marked by the instrumental (23). In this usage, an allomorph =ŋ is possible.²⁰ In other Eastern Kiranti languages like Belhare, Chintang or Limbu, this function is taken over by a mediative/perlative marker *-lam* (Bickel 2003: 549, Schikowski 2012: 83, van Driem 1987: 51). A perlative case is not attested in Yakkha, at least not in the variety spoken in Tumok.

- (23) a. *aniŋ=ga ce?ya=ŋ=bu chem*
 1PL.EXCL.POSS=GEN language=INS=HSY song
lum-bi?-ma=na=lai
 tell-V2.GIVE-INF[DEONT]=NMLZ.SG=EXCLA
 ‘She says we have to sing a song in our language.’ (reporting on the deontic statement of a person not included in the group)
 [06_cvs_01.102]
 b. *eŋ=ga ce?ya=ŋ sarab*
 1PL.INCL.POSS=GEN language=INS curse
pi-ci=ha leks-a
 give-3NSG.P[3A;PST]=NMLZ.NSG become[3SG]-PST
 ‘It happened that it (the sun) cursed them (the Linkha clan members) in our language.’
 [11_nrr_01.031]

The instrumental also indicates temporal reference (see (24)). On a side note, it is very likely that the adverbial clause linkage markers *-saŋ* and *=niŋ(a)* (both marking cotemporality) are based on the ergative/instrumental case etymologically.

²⁰Note the employment of exclusive vs. inclusive morphology in example (a). The speaker narrates the event from the perspective of the person who made the deontic statement, thus choosing the exclusive pronoun, despite the fact that the person she addresses is included. This shows that clusivity in Yakkha is not necessarily determined by including or excluding the addressee, but also by other people present in the speech situation.

- (24) a. *wandik=ŋa ta-meʔ=na*
next_day=INS come[3SG]-NPST=NMLZ.SG
‘He will come tomorrow.’
b. *khinʔbelaʔ=ŋa*
this_time=INS
‘at this time’

5.2.2.4 Genitive: =*ka*

The genitive case is marked by the suffix =*ka* (mostly realized as [ga] as result of the voicing rule, see §3.5.1). It is used for possessive constructions, linking a possessor to a head noun (see (25)). As mentioned in §4.1 on possessive pronouns, the possessee may be inflected by a possessive prefix, as in (25b) and (25c). The possessive inflection may occur in addition to a genitive-marked possessor, or may replace it, as in (25c).

- (25) a. *limbukhim=ci=ga tarŋme*
a_clan=NSG=GEN daughter-in-law
‘a daughter-in-law of the Limbukhims’ [37_nrr_07.002]
b. *isa=ga u-ɕhyaʔ*
who=GEN 3SG.POSS-child
‘Whose child (is it)?’
c. *m-ba m-ma=ci*
2SG.POSS-father 2SG.POSS-mother=NSG
‘your parents’

The head noun can also be omitted. The structure shown in (26a) is similar to a headless relative clause. Genitive-marked attributes may also be linked recursively to a head noun (see (26b)).²¹

- (26) a. *heko=na patti=ga=ci*
other=MMLZ.SG side=GEN=NSG
‘those (children) from the other one (i.e. the other wife)’ [06_cvs_01.033]
b. *aniŋ=ga linʔkha=ga uɰile utpati mamliŋ=be*
1SG.EXCL.POSS=GEN a_clan=GEN long_ago origin Mamling=LOC
leks-a=na=bu
happen[3SG]-PST=NMLZ.SG=HSY

²¹The example also shows that, at least in spoken language, discontinuous phrases are possible, since the adverb *uɰile* belongs to the verb, but occurs inside the noun phrase.

‘Our Linkha clan originated long ago in Mamling, they say.’

[11_nrr_01.002]

Relational nouns functioning as spatial adpositions also require the genitive, illustrated by (27). They are used in a possessive construction to which a locative must be added (see (27b); cf. also §5.2.3).

(27) a. *tebul=ga mopparik*
table=GEN under
‘under the table’

b. *saptakosi=ga u-lap=pe*
a_river_confluence=GEN 3SG.POSS-wing=LOC
‘on the shores of the Saptakosi’

[37_nrr_07.044]

The genitive is also employed to mark nominal modifiers referring to the material which the head noun is made of, as shown in (28).

(28) a. *kolenlun=ga cu?lumphi*
marble=GEN stele
‘a/the stele made of marble’

[18_nrr_03.001]

b. *sin=ga sangon*
wood=GEN stool
‘a/the wooden stool’

c. *plastik=ka jhola=be*
plastic=GEN bag=LOC
‘in a plastic bag’

[13_cvs_02.045]

d. *chubuk=ka caleppa*
ashes=GEN bread
‘bread of ashes’²²

[40_leg_08.056]

5.2.2.5 Locative: =pe

Yakkha has only one locative case marker =pe ([be] when voicing applies; it can be further reduced to [we] or simple [e]). Kiranti languages typically exhibit a four-fold distinction of deictic locative case markers that respond to the hilly topography of the environment.²³ Such a case system consists of (i) one generic locative and three further markers to locate items (ii) above, (iii) below or (iv) on

²² A punishment for children: smearing ashes on their cheeks and slapping them.

²³ E.g. Camling, Bantawa, Puma, Thulung, Khaling (Ebert 1994), Yamphu (Rutgers 1998: 72), Belhare (Bickel 2001: 226).

the same level as the deictic origin.²⁴ While other Eastern Kiranti languages such as Limbu and Athpare also lack those altitudinal cases (Ebert 1997: 118, van Driem 1987: 49), Belhare, seemingly the closest relative of Yakkha, displays them (Bickel 2001: 226). The locative marks the spatial coincidence of an entity defined as FIGURE with an environment or landmark defined as GROUND (Levinson & Wilkins 2006: 3). It has a very general meaning, covering relations of containment, proximity and contact, translatable as ‘in’, ‘at’ and ‘on’. Examples are provided in (29).

- (29) a. *khorek=pe cuwa*
bowl=LOC beer
‘There is beer in the bowl.’
b. *nwak=ka o-hop=pe*
bird=GEN 3SG.POSS-nest=LOC
‘in the nest of the bird’
c. *o-thok=pe ton-me?=na*
3SG.POSS-body=LOC fit[3SG]-NPST=NMLZ.SG
‘It suits/fits on her body.’

The basic locative construction (Levinson & Wilkins 2006: 15), the answer to the question ‘Where is F?’ is a copular construction with *wama* (with the suppletive nonpast stems *wai?*, *wε?*, *wei*) ‘be, exist’ (see (30a)). The same construction (with different information structure) is generally used to introduce topics in the beginning of narratives (see (30b) and (30c)).

- (30) a. *wa=ci kan̄yon̄=be ŋ-wai?=ya=ci*
chicken=NGS chicken_basket=LOC 3PL-be[NPST]=NMLZ.NSG=NSG
‘The chicken are in the chicken basket.’ (a basket with small opening, to transport chicks)
b. *panckapan=ga kerabari=be eko māḍa luṅkhwak*
a_region=GEN banana_plantation=LOC one huge stone
wε?=na
exist[3SG;NPST]=NMLZ.SG
‘In the banana plantations of Päckapan, there is a huge rock.’
[39_nrr_08.01]
c. *eko ten=be eko maghyam wei-sa=na*
one village=LOC one old_woman exist[3SG;NPST]-PST=NMLZ.SG
‘In a village, there was an old woman.’ [01_leg_07.060]

²⁴Termed ‘vertical case’ in Ebert (1994: 94), ‘altitudinal case’ in Dirksmeyer (2008: 62).

Destinations of motion verbs and verbs of caused motion are generally marked by the locative, illustrated by (31). As explained above in §5.2.2.1, in certain scenarios the locative marking on the destinations of motion verbs can be omitted.

- (31) a. *khali pun̄da=we kheʔ-m=ha*
 only jungle=LOC go-INF[DEONT]=NMLZ.NSG
 ‘Their only option was to go to the forest.’ [22_nrr_05.045]
- b. *ηkhin̄belak=pe phopciba=ca ok-san hop=pe*
 that_time=LOC owl=ADD shriek-SIM nest=LOC
pes-a-khy-a-ma
 fly[3SG]-PST-V2.GO-PST-PRF
 ‘That time, the owl flew back to its nest, shrieking.’ [42_leg_10.042]
- c. *khokpu=ga siη=be than̄-ma=ga cog-a-η*
 fig=GEN tree=LOC climb-INF=GEN do-PST-1SG
 ‘I tried to climb the fig tree.’ [42_leg_10.020]
- d. *beula=ga paη=be beuli η-ghet-u=hoη,*
 groom=GEN house=LOC bride 3PL.A-take_along-3.P[SBJ]=SEQ
 ‘They take the bride into the groom’s house and ...’

Example (32) shows three-argument constructions with locative-marked G arguments. Both inanimate and animate G arguments (i.e. goals and recipients) can be in the locative. Depending on the frames of argument realization, the locative is obligatory for some verbs, but optional for others (cf. §11.2.2 for a discussion of three-argument frames, alternations and differential object marking).

- (32) a. *ka a-cya=ci iskul=be*
 1SG[ERG] 1SG.POSS-child=NSG school=LOC
paks-wa-η-ci-η=ha
 send-NPST-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I send my children to school.’
- b. *uη=ηa ka=be mendhwak haks-wa=na*
 3SG=ERG 1SG=LOC goat send[3SG.A;3.P]-NPST=NMLZ.SG
 ‘He sends me a goat.’

Ownership can be expressed by a verb of existence and the possessor in the locative (see (33)). The existential verb has a suppletive form *ma* for negated forms (33b).

- (33) a. *ηga=be yaη waiʔ=ya?*
 2SG.POSS=LOC money exist[3SG;NPST]=NMLZ.NSG
 ‘Do you have money?’

- b. *eŋ=ga=be* *yaŋ* *m-ma-n=ha*
 1PL.INCL.POSS=GEN=LOC money NEG-exist[3;NPST]-NEG=NMLZ.NSG
 ‘We do not have money.’ (said among own people)

It is not surprising to find the locative marking extended to temporal reference. However, the more frequent marker in this function is the instrumental $=\eta a$, and the locative as shown in (34) might well be a Nepali calque; except for *na*, all words in (34) are Nepali loans.

- (34) a. *na tihar* *din=be*
 this a_hindu_festival day=LOC
 ‘on this Tihar day’ [14_nrr_02.026]
- b. *uncas* *sal=be*
 thirty-nine year=LOC
 ‘in the year thirty-nine’ [06_cvs_01.013]

There are also some fixed expressions with the locative, shown in (35).

- (35) a. *maŋcwa=be khe-me-ka=na=i?*
 water=LOC go-NPST-2=NMLZ.SG=Q
 ‘Do you go to get water (from the well)?’ [13_cvs_02.066]
- b. *daura=be khe-me-ŋ=na*
 fire_wood=LOC go-NPST-1SG=NMLZ.SG
 ‘I go to get fire wood.’

There is a secondary locative marker $=ge \sim =ghe$,²⁵ used only with human reference, to express the notion ‘at X’s place’ (see (36)).²⁶ The morpheme $=ge$ is a contraction of the genitive $=ga$ and the locative $=pe$, a structure calqued from Nepali, where one finds e.g. *tapāi-ko-mā* ‘at your place’ (you-GEN-LOC), *mero-mā* ‘at my place’ (mine-LOC).

- (36) a. *isa=ge?*
 who=LOC
 ‘At whose place?’
 b. *bagdata* *nak-se* *khe?-ma* *pΛryo*,
 marriage_finalization *ask_for-SUP* *go-INF[DEONT]* *have_to.3SG.PST*,
 mapaci=ghe, *maiti=ci=ghe* *khe?-ma=hon*,
 parents=LOC *natal_home=NSG=LOC* *go-INF[DEONT]=SEQ*
 ‘One has to go and ask for the Bagdata (ritual), one has to go to the
 parents, to the wife’s family, and ...’ [26 tra 02.013]

²⁵Both forms are equally acceptable, and semantic differences could not be detected.

²⁶The word *maiti* in (b) is a Nepali loan and refers to the natal home of a married woman.

5.2.2.6 Ablative: =*phaŋ*

The ablative =*phaŋ* (or [bhaŋ] due to voicing) marks the source of movement or transfer (see (37)). Etymologically it could be the result of stacking an older ablative =*haŋ* upon the locative marker =*pe*. Various other Kiranti languages have such complex ablative markers based on the locative marker, too (Ebert 1994: 81). In this light it might also be noteworthy that Grierson lists an ablative -*bohŋ* for a Yakkha dialect spoken in the beginning of the 20th century in Darjeeling (Grierson 1909). A possible cognate to the older marker =*haŋ* is the Belhare ablative =*huŋ* ~ =*etnahŋ* (Bickel 2003: 549).²⁷

- (37) a. *taŋkheŋ=bhaŋ tuknuŋ perco?wa uks-a-ma*,
 sky=ABL thoroughly lightning come_down[3SG]-PST-PRF
 ‘Strong lightning came down from the sky.’ [21_nrr_04.017]
- b. *nna=be ŋ-hond-u-n-ci-n=onŋ nna lupluŋ=bhaŋ tumhaŋ*
 that=LOC NEG-fit-3.P-NEG-3NSG.P=SEQ that cave=ABL Tumhang
lond-a-khy-a=na
 come_out-PST[3SG]-V2.GO-PST=NMLZ.SG
 ‘As they did not fit there anymore, Tumhang came out of that cave.’
 [27_nrr_06.005]

The ablative is also used to signify the starting point for a measurement of distance, as in (38).

- (38) *i let u-cya=ŋa u-ma paŋ=bhaŋ maŋdu*
 one day 3SG.POSS-child=ERG 3SG.POSS-mother house=ABL far
ta-me?-ma mit-uks-u
 arrive-CAUS-INF think-PRF-3.P[PST]
 ‘One day, the son wanted to bring his mother far away from the house.’
 [01_leg_07.067]

The medium of motion and the technical medium of communication can also be marked by the ablative, in parallel to the functions of the Nepali ablative *bāṭa*.

- (39) a. *kaniŋ nawa=bhaŋ hoŋma kakt-wa-m-ŋa=na*
 1PL[ERG] boat=ABL river cross-NPST-1PL.A-EXCL=NMLZ.SG
 ‘We will cross the river by boat.’

²⁷The form =*etnahŋ* is most probably also combined of a locative and an ablative marker.

- b. *kithrikpa=ŋa solop maik=phan*
 policeman=ERG immediately microphone=ABL
lu-ks-u-ci
 call-PRF-3.P[PST]-3NSGP
 ‘The policeman immediately called out their names with the microphone.’
 [01_leg_07.166]
- c. *thawa=bhan to ŋ-khy-a-ma=niŋ=go mamu nnhe=man*
 ladder=ABL up 3PL-go-PRF=CTMP=TOP girl there=EMPH
wɛʔ=na=bu
 exist[3SG]=NMLZ.SG=HSY
 ‘When he climbed up on the ladder, the girl was right there (they say)!’
 [22_nrr_05.111]

It is not unusual for Tibeto-Burman languages to display syncretisms between locative, allative and ablative (DeLancey 1985). In the majority of the Yakkha data, the Yakkha ablative marks the source, but there are quite a few examples with an ablative form (or an adverb derived by an ablative) marking the goal of a movement. Thus, Yakkha shows a syncretism between ablative and allative, to the exclusion of the locative.

- (40) a. *heʔnang khe-ks-a-ga=naʔ*
 where[ABL] go-V2.CUT-PST-2=NMLZ.SG
 ‘Where are you about to go?’
- b. *yondhan khy-a*
 across[ABL] go-IMP
 ‘Go there.’
 ‘Go from there.’

Just like the secondary locative =*ge* ~ =*ghe*, the ablative shows a secondary form =*ghan* that is used only with human reference, illustrated by (41a). Furthermore, the sentences in example (41) show that the ablative is not sensitive to topographic information. There is just one marker, used irrespective of directions and elevation levels with respect to the deictic center.

- (41) a. *lumba=ghan ukt-u-ŋ-ci-ŋ,*
 Lumba=ABL bring_down-3.P[PST]-1SG.A-3NSG.P-1SG.A
lumbapasal=bhan
 shop_of_Lumba=ABL
 ‘I brought them down from Lumba (a person), from the Lumba shop.’
 [36_cvs_06.049]

- b. *yaŋliham=bhaŋ=jhen, koi.*
 lowland=ABL=TOP some
 ‘From the lowlands (local lowlands, not the Tarai), some people.’
[36_cvs_06.465]

In some interrogative words and adverbs one can still see that they were composed of some root and an older ablative marker, e.g. in *nhan* ‘from here/and then’ and *he?nan* ~ *he?nhan* ‘where from’.²⁸

- (42) a. *heʔnaŋ* *tæ-ka=na*, *mamu?*
 where_from come[NPST]-2=NMLZ.SG, girl
 ‘Where do you come from, girl?’
 b. *mondaŋ* *ky-a-ŋ=na*
 below[ABL] come_up-PST-1SG=NMLZ.SG
 ‘I came up from below.’

The ablative is generally not used for temporal reference. There is a postposition *nhan̄to* that covers this function (cf. §5.2.3 below).

5.2.2.7 Comitative: =nun

The comitative marker *=nuŋ* is cognate to Limbu *-nu*, Thulung *-nuŋ* (Ebert 1994: 81), Wambule *-no* (Opgenort 2004: 157), Bantawa *-nin* (Doornenbal 2009: 91), Chintang *-niŋ* (Schikowski 2012: 80). It can be used as a nominal coordinator, functionally similar to English *and* (symmetrical, with nouns of the same status, as defined in Haspelmath (2004a: 3)). An example is given in (43a), a story title of the commonly found pattern ‘X and Y’. Thus, by its very nature, this case marker can be found inside noun phrases, coordinating two nominal heads. The other case markers attach to the coordinate structure as a whole (see (43b)). The marker is phonologically bound to the first component of the coordinate structure.

Examples (43c) and (43d) serve to show that both parts of the coordinate structure contribute features to the person and number marking on the verbs. In (43c) the verb is marked for dual number, determined by the proper noun *qiana* and by the omitted pronoun *ka* 'I'. In (43d) the first person inclusive verbal marking is triggered by both *nninda* and *kanin*.

- (43) a. *suku=nun kithrikpa*
 Suku=COM policeman
 ‘Suku (a girl’s name) and the policeman’ [01_leg_07.143]

²⁸Both forms *heʔnaŋ* and *heʔnhaŋ* are equally acceptable to the speakers, and semantic differences could not be detected.

- b. *a-ma=nun* *a-na=ga* *ce?ya*
 1SG.POSS-mother=COM 1SG.POSS-sister=GEN matter
 ‘the warnings of my mother and sister’ [42_leg_10.051]
- c. *hakhok=ηa* *am-me-η-ci-η=ba,* *diana=nun*
 later=INS come_over-NPST-EXCL-DU-EXCL=EMPH Diana=COM
am-me-η-ci-η, *asen=ca*
 come_overNPST-EXCL-DU-EXCL yesterday=ADD
 ‘Later, we will come of course, Diana and I, we will come; yesterday
 (we came), too.’ [36_cvs_06.376]
- d. *la,* *nningda=nun* *kanin* *haku* *cun-i!*
 alright 2PL=COM 1PL now wrestle-1PL[INCL;SBJV]
 ‘Well, now let us wrestle!’ [39_nrr_08.12]

The comitative is also used to mark peripheral participants that somehow accompany the main participants or that are associated with them (see (44)).

- (44) a. *tabek,* *kacyak,* *mina* *kondarik,* *caprak* *nhan*
 khukuri_knife, sickle, small spade, spade and_then
chomlaki=nun *punda=be* *lab-a-cog-a-η-ci-η*
 split_bamboo=COM jungle=LOC hold-PST-V2.MAKE-PST-EXCL-DU-EXCL
 ‘Carrying khukuri, sickle, spades and split bamboo, we went into the
 jungle.’ (lit. ‘made into the jungle’)²⁹ [40_leg_08.008]
- b. *ka=nun* *khe?-ma=na* *kamnibak*
 1SG=COM go-INF[DEONT]=NMLZ.SG friend
 ‘a friend who has to walk with me’

Some frames of verbal argument realization (both intransitive and transitive) require the comitative on their arguments, such as *cekma* ‘talk’, *tonma* ‘fit/agree/belong to’, *kisi?ma* ‘be afraid’, *nakma* ‘ask’ and *incama* ‘buy (from)’ (see (45)).

- (45) a. *mimik,* *ka=nun* *seppa,* *u-ppa=nun=go* *banda,*
 a_little 1SG=COM RESTR.EMPH 3SG.POSS-father=COM=TOP closed
n-jeη-me-n=na
 NEG-talk[3SG]-NPST-NEG=NMLZ.SG
 ‘A little, just with me – with her father, nothing, she does not talk to
 him.’ [36_cvs_06.278]

²⁹This V2 is only found in this one example so far, and thus, it is not treated in Chapter 10 on complex predicates.

- b. *limbu=ci=ga=nun* *ton-di-me=ppa,*
 Limbu_ethnic.group=NSG=GEN=COM agree-V2.GIVE-NPST[3SG]=EMPH
en=ga=go [...] *aru=ga=nun*
 1PL.INCL.POSS=GEN=TOP [...] other=GEN=COM
n-don-men
 NEG-agree[3SG]-NPST-NEG
 ‘It is like the language of the Limbus, our (language). [...] It does not
 fit to the others.’ [36_cvs_06.256-58]

The comitative also plays a role in the derivation of some adverbs, as shown in (46) (cf. §6.3). Furthermore, it is also found in clause linkage (cf. §14.7).

- (46) *khumdu=nun nam-ma*
 tasty=COM smell-INF
 ‘to smell tasty’

5.2.3 Further case markers (Group II)

The markers of Group II are quite heterogeneous; they do not define a class as such. They can appear bound to their host or independently, i.e. stressed like a separate word. Their phonological weight is also greater than that of the markers of Group I; all are at least disyllabic. The case markers of Group II have a greater flexibility with regard to hosts they can select. Not only nominals are possible, but also adverbials. Some markers of Group II are not attested with nominal complements at all, like *kha?la* ‘towards’. Furthermore, a number of the markers of Group II have hybrid word class status; they can also be used as adverbs. Some markers were borrowed into the language from Nepali, like *samma* ‘until’ or *anudar* ‘according to’. Table 5.5 provides a summary of all Group II markers and their functions, described in detail in the following sections.

5.2.3.1 Directional, manner: *kha?la*

The directional/manner postposition *kha?la* ‘towards, in the way of’ is not attested with nouns, it only attaches to deictic adverbs. The directional reading is found when *kha?la* attaches to demonstrative adverbs typically occurring with motion verbs (see (47)). Etymologically, it is a combination of a demonstrative *kha* with an older allative or directional case marker. Cognates of such a marker are attested in several Kiranti languages: *-tni* in Bantawa (Doornenbal 2009: 84) and Puma (Sharma (Gautam) 2005), *-bai?ni* ~ *-?ni* in Chintang (Schikowski 2012: 83).

MARKER	FUNCTION
<i>kha?la</i>	directional, ‘towards’; manner ‘like’
<i>nhaŋto</i>	temporal ablative, ‘since, from X on’
<i>haksan</i>	comparative, ‘compared to’
<i>ha?niŋ</i>	comparative, ‘compared to’
<i>lo?a</i>	equative, similitative, ‘like’
<i>hiŋ</i>	equative (size) ‘as big as’
<i>ma?niŋ</i>	caritive, ‘without’
<i>bahek</i> [NEP]	exclusive, ‘apart from’
<i>samma</i> [NEP]	terminative, ‘until, towards’
<i>anusar</i> [NEP]	‘according to’
<i>lagi</i> [NEP]	benefactive, ‘for’

Table 5.5: Case markers (Group II)

- (47) a. *to=kha?la ky-a!*
up=towards come_up-IMP
‘Come up!’ [01_leg_07.329]
- b. *ŋkha limbu=ci yo=kha?la ŋ-khy-a*
those Limbu_person=NSG across=towards 3PL-go-PST
‘Those Limbus went away (horizontally).’ [22_nrr_05.017]
- c. *nninga=go, mo, mo=kha?la=ca*
2PL.POSS=TOP down down=towards=ADD
nis-uks-u-ŋ=ha
see-PRF-3.P[PST]-1SG.A=NMLZ.NSG
‘Your (home), below, downwards, I have seen it, too.’³⁰[28_cvs_04.334]

The manner reading is found when *kha?la* attaches to demonstratives (see (48)).

- (48) a. *ijan bhasa n-jiŋ-ghom-me=ha?*
why language 3PL-learn-V2.ROAM-NPST=NMLZ.NSG
hoŋ=kha?la=maŋ ba?lo!
that_very=like=EMPH EMPH.EXCLA
‘Why do they walk around learning languages? Just like that!’
[28_cvs_04.324]
- b. *nna=kha?la, mamu, i cok-ma=?lo, hamro des?*
that=like girl what do-INF=EXCLA our country
‘(It is) like that, what to do, girl, with our country?’ [28_cvs_04.163]

³⁰‘Downwards’ could be any location outside the Himalayas.

The marker *kha?la* also has a homonymous adverbial counterpart³¹ with a purely manner reading: ‘like this’, e.g. *kha?la om* ‘It is like this’.

5.2.3.2 Temporal ablative: *nhanto*

The marker *nhanto* (occasionally also *bhanto*) usually attaches to nouns or adverbs with temporal reference and marks the beginning of time intervals, regardless of whether they extend from a point in the past, present or future, as the examples in (49) illustrate. Example (49d) shows that it may also attach to demonstratives. The etymology of this marker is still transparent. It is composed of a demonstrative *na* with an (older) ablative *-han* and the deictic adverb *to* ‘up’, yielding a phrase ‘up from here’. This points towards a conceptualization of time as beginning below and flowing upwards. So far, this is just an educated guess, supported by the uses of some complex predicates, such as a combination of ‘see’ and ‘bring up’, best translated as ‘having remembered’.

- (49) a. *asen=nhanto*
yesterday=TEMP.ABL
‘since yesterday’
- b. *mi wandik=nhanto*
a_little later=TEMP.ABL
‘from a bit later on’
- c. *lop=nhanto=man*
now=TEMP.ABL=EMPH
‘from now on’ [01_leg_07.030]
- d. *nna=nhanto sumphak ciller n-leks-u*
that=TEMP.ABL leaf face_up 3PL.A-turn-3.P[PST]
‘From that (event) on, they turned around the leaf plate to the proper side.’ [22_nrr_05.132]

This marker is occasionally also found as clause-initial coordinator used similarly to (50), which reflects the historical stage prior to becoming a bound marker. The previous clause is referred to by a demonstrative (not in these, but in plenty of other examples), resulting in a structure *nna, nhanto* ‘that, and then upwards’, and eventually the clause-initial coordinator got reanalyzed as requiring a complement of some kind.

³¹ Adverbial in the sense that it occurs independently, without nominal complements, and in the function of modifying verbs.

- (50) a. *nhanto, garo n-chenḍ-et-wa=na,*
and_then wall 3PL.A-mason-V2.CARRY.OFF-NPST=NMLZ.SG
to=khaʔla
up=towards
‘And then they mason the wall, upwards.’ [31_mat_01.093]
- b. *nhanto phuna=chen seg-haks-u-ḡ=hoḡ*
and_then white=TOP choose-V2.SEND-3.P[PST]-1SG.A=SEQ
‘And then, I sorted out the white (bread), and ...’ [40_leg_08.060]

Marginally (in one case, to be precise), a synonymous marker *nhanḡkhe*, paraphrasable as ‘from then on hither’, was found with the same function.

- (51) *nhanḡkhe u-ma heʔniḡ=ca issisi n-jog-uks-u-n*
and_then 3SG.POSS-mother when=ADD bad NEG-do-PRF-3.P[PST]-NEG
‘And then, he never did his mother bad again.’ [01_leg_07.082]

5.2.3.3 Comparative: *haksan/haʔniḡ*

The two comparative markers *haksan* and *haʔniḡ* mark the standard in comparative and in superlative constructions. They are used interchangeably without any functional difference. Since they are treated in detail in Chapter 6, three examples shall suffice here. Examples (52a) and (52b) show comparative constructions, (52c) shows a superlative construction. The comparative markers can attach to all kinds of hosts, even to verbs. Etymologically they must have been converbal forms, since Yakkha has the converbal and adverbial clause linkage markers *-san* and *=niḡ*, both indicating cotemporality. The identity of a possible verbal stem *hak*, however, could not be determined with certainty. Synchronically, the meaning of ‘compare’ is expressed by a complex verb *themnima*. A likely candidate could be *haks*, which basically means ‘send/send up’, but is also used with the meaning ‘weigh’.

- (52) a. *nda haʔniḡ pak=na?*
2sg COMPAR be_unripe=NMLZ.SG
‘Is he younger than you?’
- b. *heko=ha nwak=ci haksan miyan alag (...)*
other=NMLZ.NSG bird=NSG COMPAR a_little different (...)
sa=na=bu
COP.PST=NMLZ.SG=HSY
‘He was a bit different from the other birds, they say.’ [21_nrr_04.002]
- c. *ghak haʔniḡ mi=na mima*
all COMPAR small=NMLZ.SG mouse

‘the smallest mouse (of them all)’

[01_leg_07.003]

5.2.3.4 Equative, similative: *loʔa*

The equative/similative *loʔa* marks the standard of an equation. It can have adverbial (53a) and nominal complements (a numeral in (53b)), even clausal, when they are embedded to verbs of perception or cognition. Example (53c) shows that the resulting equative phrase can be “fed” into a nominalization itself and thus made a referential phrase. The equative/similative marker is cognate to the comitative and adverbial clause linkage marker *-lo ~ lok ~ loʔ* in Belhare (Bickel 1993). The same marker is known as ‘manner suffix’ in Bantawa (Doornenbal 2009). There is one lexicalized instance of *loʔa*, the adverb *pekloʔa ~ pyakloʔa* ‘usual(ly)’, still morphologically transparent: its literal meaning would be ‘like much/like many’.

- (53) a. *khem loʔa*
 before like
 ‘like before’
- b. *kaniŋ ka-i-wa=niŋa eko loʔa kheps-wa-m*
 1PL say-1PL-NPST=CTMP one like hear-NPST[3.P]-1PL.A
 ‘When we say it, it sounds the same!’ [36_cvs_06.478]
- c. *khem loʔa=na mekan!*
 before like=NMLZ.SG NEG.COP.2SG
 ‘You are not like someone from just before!’ (said to someone who was a little tipsy but claimed to come right from work)

In a manner typical for Tibeto-Burman languages, this marker extends its function to clauses.³² In (54) it takes over the function of a complementizer.

- (54) *ka luʔ-meʔ-nen-in=ha loʔa cog-a-ni*
 1SG[ERG] tell-NPST-1>2-2PL=NMLZ.NSG like do -IMP-PL.IMP
 ‘Do as I tell you.’ [14_nrr_02.019]

5.2.3.5 Equative for size: *hiŋ*

The equative case for size is etymologically related to the deictic adverb *khiŋ* (which is etymologically composed of the demonstrative *kha* and *hiŋ*). Attached to a noun phrase that functions as standard of comparison, this case marker indicates that an object is as big as the object referred to by the noun to which *hiŋ* attaches, as shown in (55). In this example, the whole phrase is nominalized and functions as the nominal predicate of a copular clause.

³²See also DeLancey (1985), Genetti (1991).

- (55) *m-muk a-lan hiŋ=na (om)*
2SG.POSS-hand 1SG.POSS-foot as_big_as=NMLZ.SG (COP)
‘Your hand is as big as my foot.’

5.2.3.6 Privative: *maʔniŋ*

The privative *maʔniŋ* is historically complex, similar to *haʔniŋ* above. It is composed of the negative existential copular stem *ma* (in third person singular, zero-marked) and the cotemporal adverbial clause linkage marker *=niŋ* (see (56)). In the same way as we have seen above for *loʔa* already, the privative phrase can be nominalized to serve as a nominal modifier, as shown in (56b).

- (56) a. *i=ŋa cama niʔ-m=ha, maŋcwa maʔniŋ?*
what=INS rice cook-INF[DEONT]=NMLZ.NSG water without
‘How (in what) shall we cook rice, without water?’ [13_cvs_02.108]
b. *wariŋba maʔniŋ=ha khyu*
tomato without=NMLZ.NSG curry_sauce
‘curry sauce without tomatoes in it’

5.2.3.7 Postpositions from Nepali

The benefactive/purposive postposition *lagi* (from Nepali *lāgi*), like in its source language, requires the genitive case. It can attach to nouns proper or to nominalized clauses like the infinitive in (57b). The genitive is however also found on purposive infinitival clauses without the postposition (see §14.3); it might well precede the point in time when *lagi* entered the Yakkha language.

- (57) a. *hoʔi! ak=ka lagi iya=ca tuʔkhi n-jog-a-n*
enough! 1SG.POSS=GEN for what=ADD trouble NEG-do-IMP-NEG
‘No, thanks. Do not bother about me (at all).’ [01_leg_07.186]
b. *heʔniŋ-heʔniŋ=go yuncama=le cok-ma haʔlo*
when-when=TOP laughter=CTR do-INF[DEONT] EXCLA
‘Sometimes one just has to joke around, man!’ [36_cvs_06.263]

Another postposition from Nepali is *anuser* ‘according to’ (from Nepali *anusār*). It is typically found with nominalized clauses (58).

- (58) a. *ka-ya=na anuser*
say[3SG]-PST=NMLZ.SG according_to
‘according to what was said/promised’ [11_nrr_01.012]
b. *ka nis-u-ŋ=ha anuser*
1SG[ERG] see-3.P[PST]-1SG.A=NMLZ.NC according_to

‘according to what I know/saw’ [25_tra_01.169]

The terminative postposition *samma* is used to specify the endpoint of an event (see (59)). This postposition is also found in clause linkage, in combination with native adverbial subordinators.

- (59) *aniŋ=ga ce?ya hen samma man=ha=bu*
 1PL.EXCL.POSS=GEN language now until NEG.COP=NMLZ.NC=HSY
 ‘Our language has not been established until now (they say).’
 [07_sng_01.06]

The exclusive postposition *bahek* ‘apart from’ serves to single out a referent to which the predication made in the sentence does not apply (see (60)).

- (60) *taŋcukulik bahek=chen, heŋ-nhak-ni-ma, jammai,*
 pig-tail apart_from=TOP cut-V2.SEND-COMPL-INF[DEONT] all
kha ya-muŋ=ca, ghak heŋ-nhaŋ-ma
 this mouth-hair=ADD all cut-V2.SEND-INF[DEONT]
 ‘Apart from the pig-tail one has to cut it off, all, this beard too, all has to
 be cut off.’ (context: funeral description) [29_cvs_05.058]

In all the postpositions from Nepali, the phonological contrast between open-mid /ʌ/ and open /a/ which is present in the source language is neutralized to open and long /a/.

5.3 Relational nouns

Yakkha has a class of relational nouns, in which specific meanings like ‘root’ are metaphorically extended to indicate more general spatial relations like ‘under’. Usually, they occur in a possessive construction with the complement noun in the genitive and a possessive prefix attaching to the relational noun, which also hosts a locative case marker, as in (61a) and (61b). Relational nouns expressing spatial relations are a common source for case markers and postpositions in Tibeto-Burman (DeLancey 1985: 62).

- (61) a. *phaktaŋluŋ=ga u-sam=be*
 Mount_Kumbhakarna=GEN 3SG.POSS-root=LOC
 ‘at the foot of Mount Kumbhakarna’ [18_nrr_03.001]

- b. *caram=ga u-lap=pe camokla=nun ambibu=ga*
 yard=GEN 3SG.POSS-wing=LOC banana=COM mango=GEN
u-thap η-weʔ-ha
 3SG.POSS-plant 3PL-exist[NPST]=NMLZ.NSG
 ‘At the edge of the yard there are some banana trees and mango trees.’
 [01_leg_07.176]

Relational nouns can also be found without the inflectional morphology between complement and relational noun, in a compound-like structure, as in (62a).³³ Not just the locative, also the ablative may attach to a relational noun, as shown in (62b). In this particular example, the ablative marking indicates a movement along a trajectory above the table.

- (62) a. *hakhok=ηa ka cend-a-ky-a-η=hoη*
 later=INS 1SG wake_up-PST-V2.COME_UP-PST-1SG=SEQ
so-η=nin̩a=go ka lun̩khwak-choη=be ips-a-masa
 look-1SG=CTMP=TOP 1SG stone-top=LOC sleep[3SG]-PST-PST-PRF
 ‘Later, when I woke up and looked around, (I realized that) I had been sleeping on a rock.’
 [42_leg_10.043]
- b. *chalumma=ηa phuaba tebul-choη=bhaη bol*
 second_born_girl=ERG last_born_boy table-top=ABL ball
lept-u-bi=na
 throw-3.P[PST]-V2.GIVE=NMLZ.SG
 ‘Chalumma threw the ball over the table to Phuaba.’

Table 5.6 provides a summary and the source lexical meaning of each relational noun.

In (63), the relational noun is reduplicated, since the relation described is not one of location at the riverside, but one of movement along the river.

- (63) *hoηma=ga u-lap-ulap lukt-a-ma*
 river=GEN 3SG.POSS-wing-REDUP run[3SG]-PST-PRF
 ‘He ran along the shore of the river.’
 [01_leg_07.216]

The two relational nouns *heksaη* and *ondaη* can, additionally, occur as adverbs. In the current corpus, they are mainly used adverbially (compare (64a), (b) and

³³The person marking for third person on the main verb here is exceptional, since it refers to a first person participant. The expected regular first person inflection (*ipsamasayna*) would be possible as well. We know that such impersonal inflection is an alternative and frequent way to express first person nonsingular patients in Yakkha. This example is however the only instance in the corpus where this strategy is used for first person singular subject of an intransitive verb.

RELATIONAL NOUN	GLOSS	LEXICAL MEANING
<i>choŋ ~ chom</i>	above, on, on top of	‘top, summit’
<i>sam</i>	below	‘root’
<i>lum</i>	in, between	‘middle’
<i>yum</i>	next to	‘side’
<i>hoŋ</i>	inside	‘hole’
<i>lap</i>	next to (upper part)	‘wing’
<i>laŋ</i>	next to (lower part)	‘leg’
<i>heksaŋ</i>	behind, after	‘backside’
<i>ondaŋ</i>	in front of, before	‘frontside’
<i>chuptaŋ</i>	to the right of	‘right side’
<i>pheksaŋ</i>	to the left of	‘left side’

Table 5.6: Relational nouns

(c)). As these examples show, *heksaŋ* and *ondaŋ* can also be used with a temporal interpretation.

- (64) a. *n-heksaŋ=be cuwa ta=ya*
 2SG.POSS-behind=LOC beer come[3SG;PST]=NMLZ.NSG
 ‘Some beer has arrived behind you.’
- b. *tabhaŋ panc hapta heksaŋ ta-me?=na*
 son-in-law five week behind come[3SG]-NPST=NMLZ.SG
 ‘The son-in-law comes five weeks later.’
- c. *heksaŋ so-ŋ-ci-ŋ uŋci*
 later look[PST]-1SG.A-3NSG.P-1SG.A 3NSG
n-nis-u-n-ci-ŋa-n
 NEG-see-3.P[PST]-NEG-3NSG.P-1SG.A-NEG
 ‘Later, when I looked for them, I did not see them.’ [41_leg_09.050]

Furthermore, there are spatial adpositions, presenting an orientation system that is based on the uphill/downhill distinction. They are treated in §7.4, together with the other word classes that are based on this topography-based system.

Yakkha does not have a perlocative/mediative *lam* or *lamma* case or postposition which is found in many of the surrounding languages.³⁴ There is also no postposi-

³⁴E.g. in Chintang (Schikowski 2012), Belhare (Bickel 2003), Limbu (van Driem 1987), Athpare, Yamphu, Camling, Thulung (Ebert 2003c).

tion for the relation ‘around’. This can only be expressed adverbially with *ighurum* (65).³⁵

- (65) *mi em-saŋ huŋ-ca-saŋ ighurum yuŋ-i-misi-ŋ*
 fire get_warm-SIM bask-V2.EAT-SIM around sit-1PL-PRF.PST-EXCL
 ‘[...], we had sat around the fire, getting warm.’ [40_leg_08.033]

5.4 The structure of the noun phrase

The basic function of noun phrases is to establish reference. They occur as arguments of verbs, as complements of postpositions and as predicates in copular constructions. They may host morphology such as case and number markers and various discourse particles. Noun phrases are potentially complex; both coordinate and embedded structures can be found inside the noun phrase. Noun phrases can be headed by a lexical noun or by a pronoun, a demonstrative, a numeral, a quantifier or an adjective. Noun phrases that are not headed by a lexical noun are more restricted in the kind of modifying material they may contain. Noun phrases can also be headless, consisting just of some non-nominal material and a nominalizing device. Hence, no element in a Yakkha noun phrase is obligatory.

The default structure for headed noun phrases is head-final. Deviations from this pattern reflect discourse requirements, discussed below. In noun phrases that are headed by personal pronouns or demonstratives, modifiers follow the head. Noun phrases with more than two modifying elements are exceedingly rare.

5.4.1 Possessive phrases

Possessive phrases consist minimally of a noun (referring to the possessee) which is marked by a possessive prefix (indexing the possessor, see (66a)). If there is an overt possessor, marked by the genitive, the possessive prefix is generally optional (see (66b)), except for inherently possessed nouns such as core family terms and some other nouns implying part-whole relations. The possessive prefix may, however, also co-occur with a possessive pronoun, but only when the possessor has singular reference (see unacceptable (66c)). Recursive embedding is possible as well, but not found beyond two levels of embedding in the currently available data (66e).

- (66) a. (*ak=ka*) *a-cya=ci*
 (1SG.POSS=GEN) 1SG.POSS-child=NSG

³⁵This adverb has its origin in a noun *ighurum* ‘round’, which still exists synchronically in Yakkha.

- ‘my children’ [21_nrr_04.027]
- b. *ghak=ka dʌŋgak=ci*
all=GEN stick=NSG
‘everyone’s sticks’ [04_leg_03.024]
- c. *eŋ=ga (*en-)na-nuncha=ci*
1PL.INCL.POSS=GEN (*1PL.INC.POSS-)eZ-yZ=NSG
‘our sisters’ [41_leg_09.015]
- d. *beuli=ga u-kamnibak*
bride=GEN 3SG.POSS-friend
‘a friend of the bride’ [25_tra_01.089]
- e. *eko khokpu=ga u-thap=ka u-sam=be*
one fig=GEN 3SG.POSS-plant=GEN 3SG.POSS-root=LOC
‘below a fig tree’ [42_leg_10.015]

5.4.2 Other modifiers: adjectives, numerals, quantifiers, demonstratives

Below, examples with numerals (see (67a)), demonstratives (see (67b) and (67c)), adjectives (see (67d) and (67e)) are shown. The examples also illustrate nominal morphology such as case markers, attaching to the rightmost element of the phrase, and optionally followed by discourse particles like the additive focus marker =*ca* or the restrictive focus marker =*se*.

- (67) a. *eko a-muk=phan*
one 1SG.POSS-hand=ABL
‘from one of my hands’ [40_leg_08.022]
- b. *na tumna=ŋa*
this elder=ERG
‘this elder one’ [40_leg_08.055]
- c. *ŋkha u-hiruʔwa=ci*
those 3SG.POSS-intestine=NSG
‘those intestines’ [40_leg_08.039]
- d. *onek=ha ceʔya=ca*
joking=NMLZ.NSG matter=ADD
‘jokes, too’ [40_leg_08.057]
- e. *heko=na whak=pe*
other=NMLZ.SG branch=LOC
‘on another branch’ [42_leg_10.032]
- f. *honna=ga=se dʌŋgak*
that_very=GEN=RESTR stick
‘only that person’s stick’ [04_leg_03.025]

When the head noun is a pronoun or a demonstrative, the modifier is usually a quantifier or a numeral, and it follows the head. Occasionally other material elaborating on the identity of the pronominal referent is found as well, as in (68d).

- (68) a. *iya-iya nis-u-ga=na, ŋkha ghak*
 what-what see-3.P[PST]-2.A=NMLZ.SG that all
yok-met-a-ŋ=eba
 search-CAUS-IMP-1SG.P=POL.IMP
 ‘Please tell me everything you saw.’ [19_pea_01.005]
- b. *kaniŋ ghak chups-i-ŋ=hoŋ*
 1PL all gather-1PL-EXCL=SEQ
 ‘As we all had gathered, ...’ [41_leg_09.054]
- c. *uŋci hip-paŋ*
 3NSG two-CLF.HUM
 ‘the two of them’
- d. *kaniŋ yakkhaba yakkhama=ci*
 1PL Yakkha_man Yakkha_woman=NSG
 ‘we Yakkha people’

5.4.3 Relative clauses

In (69) and (70), examples of relative clauses are given, constructed with the nominalizers *-khuba* and *=na/=ha* (treated in Chapter 13). They can be of considerable length and internal complexity. In (69c), three coordinated relative clauses serve to modify to the same head noun, *whaŋsa* ‘steam’.³⁶ They are joined by apposition and a comitative between the latter two relative clauses. This pattern of coordination is common. In (69d), the relative clause is preceded by an adjective and contains a complement-taking verb with an embedded infinitive.

- (69) a. *ka haksan tum=na yapmi*
 1SG COMPAR elder=NMLZ.SG person
 ‘a person senior to me’ [40_leg_08.078]
- b. *kha?la otesraŋ=ha pachem=ci!*
 like_this reverse=NMLZ.NSG young_boy=NSG
 ‘Such naughty boys!’ [40_leg_08.075]

³⁶Enumerations of coordinated items, with the comitative marker functioning as a coordinator (between the last two items if there are more than two), are common in Yakkha. These relative clauses are not embedded into one another; there are three different smells (or ‘steams’), not the smell of yams that are cooked together with fried bread and sauce, which also would not make sense semantically, since *whaŋma* can only refer to boiling something solid in water.

- c. *caleppa leps-a=ha, ni-ya=ha*
 bread deep_fry[3SG]-PST=NMLZ.NC fry[3SG]-PST=NMLZ.NC
macchi=nun khi whaṇd=ha whaṇsa
 chili_sauce=COM yam boil[3SG;PST]=NMLZ.NC steam
 ‘the steam of deep-fried bread, fried chili and boiled yams’³⁷
 [40_leg_08.046]
- d. *issisi, khem-ma=i me-ya-m=ha ceʔya*
 ugly hear-INF=FOC NEG-be_able-INF=NMLZ.NC talk
 ‘ugly talk that one cannot listen to’ [36_cvs_06.600]

Headless noun phrases, identical to headless relative clauses, are presented in (70).

- (70) a. *khi khon-khuba=ci*
 yam dig-NMLZ=NSG
 ‘people digging yam’ [40_leg_08.009]
- b. *to=na*
 up=NMLZ.SG
 ‘the upper one’

Some nouns take clausal complements (see §15.2.3).

5.4.4 Coordination

If nouns are coordinated in a noun phrase, they can either be juxtaposed (see (71a)), or by means of the comitative case marker attached to the penultimate noun (see (71b)). The comitative may also coordinate adjectives. Example (71c) shows again several levels of embedding are possible: the coordinated nouns may themselves be modified and these modifiers may also be coordinated by *=nun*. Apposition is used comparatively often; instead of using some more general term, one often finds long enumerations of things. This could be a stylistic device to create suspense in narratives, as exemplified in (71d).

- (71) a. *yarepman, liklinphun nam-ma=niṇ=ca ibibi sokma*
 fern, mugwort smell-INF=CTMP=ADD very_much breath
ta-ya=na
 come[3SG]-PST=NMLZ.SG
 ‘When we sniffed at fern and mugwort plants, we regained quite some energy.’ [40_leg_08.018]

³⁷The lexeme *macchi* is a loan from the Nepali source word *marej* ‘pepper’. In Yakkha, it refers to chili peppers, but also to hot pickles and sauces.

- b. *paŋkhi=nun* *puŋdakhi*
cultivated_yam=COM wild_yam
'cultivated yam and wild yam' [40_leg_08.025]
- c. *paŋ=be* *phu=ha=nun* *makhur=ha* *caleppa, macchi,*
house=LOC white=NMLZ.NC=COM black=NMLZ.NC bread, pickles,
khicalak=nun *cuwa* *py-a*
rice_dish=COM beer give-PST[1.P]
'At home, they gave us white and black bread, pickles, khichadi and beer.' [40_leg_08.051]
- d. *uŋci=ŋa* *tabek,* *siŋ,* *phendik,* *lom-ma*
3NSG=ERG khukuri wood axe take_out-INF
n-darokt-u
3PL.A-start-3.P[PST]
'They started to take out khukuri knives, wooden clubs and axes.' [41_leg_09.038]

Not only heads, also modifying material can be coordinated by juxtaposition. Interestingly, when two sub-compounds are in apposition, the head noun of the first can be omitted, as shown in (72c).

- (72) a. *phu-nuncha* *na-nuncha=be*
elder_brother-younger_sibling elder_sister-younger_sibling=LOC
pak=na
be_unripe=NMLZ.SG
'the youngest among the brothers and sisters' [40_leg_08.052]
- b. *hoŋkha?la* *khi-ma=ha* *tu-ma=ha* *ce?ya*
like_that_very fight-INF=NMLZ.NC wrestle-INF=NMLZ.NC matter
'the issue of fighting and wrestling like just told' [41_leg_09.072]
- c. *tondigaŋma* *liŋkhacama-puŋda=ci*
a_forest_name a_forest_name-forest=NSG
'the Tondigangma and Linkhacama forests' [40_leg_08.011]

5.4.5 Combinatory possibilities

Concerning the combinatory potential inside the noun phrase, there seem to be few restrictions. The average noun phrase, however, shows maximally two modifying elements, as illustrated below: NUM-ADJ-N in (73a), DEM-NUM-N in (73b), DEM-ADJ-N in (73c), POSS-NUM-N in (73d), POSS-DEM-N in (73e), DEM-QUANT in (73f). Other possibilities found are POSS-ADJ-N, ADJ-RC-N, NUM-RC-N, DEM-RC-N, POSS-NUM-N. The only recognizable tendency found was that of putting demonstratives first, although this is not a categorical rule.

- (73) a. *eko maḍa tiʔwa*
 one big pheasant
 ‘one big pheasant’ [40_leg_08.036]
- b. *na eko luŋkhwak=chen*
 this one stone=TOP
 ‘as for this one stone’ [37_nrr_07.007]
- c. *na makhruk=na caleppa*
 this black=NMLZ.SG bread
 ‘this black bread’ [40_leg_08.053]
- d. *chubuk=ka hic=ci caleppa*
 ashes=GEN two=NSG bread
 ‘two breads of ashes’ [40_leg_08.071]
- e. *paghyam=ga ŋkha sala*
 old_man=GEN that talk
 ‘that talk of the old man’ [40_leg_08.076]
- f. *kha ghak casak*
 this all uncooked_rice
 ‘all this uncooked rice’ [01_leg_07.016]

When the noun phrase is headed by a pronoun, only quantifiers or numeral modifiers are possible, and they follow the head, as already shown above in example (68).

From these possibilities, the following (idealized) schema for a maximal noun phrase can be inferred (see Figure 5.1). As it was said above, the noun phrase is rather unrestricted, so that it is highly conceivable that noun phrases with an internal structure deviating from this schema can be found.

DEM	POSS	NUM	ADJ	RC	N	
					PRON/	NUM/
					DEM	QUANT

Figure 5.1: Schema of the maximal noun phrase

5.4.6 Information structure inside the noun phrase

When the order of head and attribute is reversed in a noun phrase, one can notice an increase in assertiveness to the right end of the phrase. In (74a), for instance, an assertion is made about an old man who has the habit of making jokes, a fact which sets the scene for what is to come: the old man plays a prank at the protagonist of

the story. In (74b), the asserted information is not so much the fact that a market takes place, because the narrative is temporally embedded in a season known for events such as markets and fun fairs, but rather the fact that it is a comparatively big market. Modifying material to the right of the head noun is restricted to one element (as in Belhare, see Bickel (2003: 562)).

- (74) a. *nna ighurum=be a-pum laktange=ca*
that round=LOC 1SG.POSS-grandfather humorous=ADD
wa-ya=na
exist[3SG]-PST=NMLZ.SG
‘In that round, a humorous old man was there, too.’ [40_leg_08.034]
- b. *inimma manpha ma=na pog-a-ma*
market quite big=NMLZ.SG rise[3SG]-PST-PRF
‘Quite a big market took place.’³⁸ [01_leg_07.145]

Elements inside the noun phrase can also be focussed on or topicalized, as the following examples show. In (75a) *akkago* is a contrastive topic, in a (hypothetical) argument where one person brags about how many friends he has, in contrast to the other person. In (75b), there is a contrastive focus marker inside the noun phrase, added because the assertion is made in contrast to a presupposition claiming the opposite to be true.

- (75) a. *ak=ka=go ibebe=ha ghak kamnibak=ci*
1SG.POSS=GEN=TOP everywhere=NMLZ.NSG all friend=NSG
kha?la=hoŋ ŋ-wai?=ya=ci
like_this=SEQ 3PL-exist[NPST]=NMLZ.NSG=NSG
‘As for mine, I have friends everywhere, like this.’ [36_cvs_06.355]
- b. *na=go aniŋ=ga=le kham, nniŋda nhe wa-ma*
this=TOP 1PL.EXCL.POSS=GEN=CTR ground 2PL[ERG] here live-INF
n-dokt-wa-m-ga-n=ha
NEG-get-NPST-2PL.A-2-NEG=NMLZ.NSG
‘This is our land, you will not get the chance to live here.’
[22_nrr_05.012]

³⁸The noun *inimma* is a neologism and not widely in use.

6 Adjectives and adverbs

Adjectives are lexical items specifying some property of a referent, while adverbs specify characteristics of an event such as cause, degree and manner, and ground it in space and time. They are treated in one chapter because they are often derived from the same, often verbal, roots.

The number of lexical adjectives and adverbs, i.e. those that cannot be traced back to verbal stems, is rather small. Nevertheless, adjectives and adverbs show some characteristics that motivate a separate lexical class. Most prominently, these are ideophonic patterns and the morphological processes of reduplication and triplication, which are highly productive in this class, but only marginally found in other word classes. The derivational morphology attached to the mostly verbal bases determines which structural position in the clause they will occupy, and hence, whether they have adjectival or adverbial function.

This chapter is structured as follows: adjectives are treated in §6.1. Comparative and equative constructions and the expression of degree are treated in §6.2. The derivations leading to the various types of adverbs are treated in §6.3. Reduplication, triplication and ideophonic patterns are so rich that they deserve their own section (§6.4).

Adjectives and adverbs that are employed for spatial orientation, involving a topography-based orientation system, are treated in Chapter 7.3.

6.1 Adjectives

6.1.1 Kinds of adjectives

The function of adjectives is the modification of nouns, either inside the noun phrase or as predicates of copular clauses. Many adjectives are based on verbal stems historically, but not all of these stems behave like full-fledged verbs synchronically, for instance in not showing the full range of inflectional possibilities that are known from verbs.

The major strategy for the derivation of adjectives is attaching the nominalizers =*na* (when the head noun has singular number) and =*ha* ~ =*ya* (when the head

noun has nonsingular number or non-countable reference) to verbal roots, which results in a minimal relative clause (see (1a) and (1b), and Chapter 13). The bases of adjectives are not necessarily verbs, however. These nominalizers can link any modifying material to a noun, regardless of its word class (see (1c)). This example also shows that adjectives may head noun phrases, like minimal headless relative clauses. Such headless relative clauses are different from lexical nouns; case and number marking are allowed on them, but possessive marking is restricted to lexical nouns.

- (1) a. *ci=ha* *maŋcwa*
 get_cold=NMLZ.NC water
 ‘cold water’ (verbal: *maŋcwa cisabhya* ‘The water got cold.’)
 b. *haŋ=ha* *macchi*
 be_spicy=NMLZ.NC pickles
 ‘hot pickles’
 c. *nna* *cancan*(=na)=bhaŋ*
 that tall*(=NMLZ.SG)=ABL
 ‘from that tall one’ (referring to a rock) [38_nrr_07.040]

Some adjectives look like lexicalized inflected transitive verbs, like *cattuna*, meaning ‘fat/strong’ (no verbal root of this form attested) or the adjective in (2).

- (2) *cend-u=na* *a-na*
 wake_up-3.P[PST]=NMLZ.NSG 1SG.POSS-eZ
 ‘my witty elder sister’ [40_leg_08.057]

Not all adjectival bases are synchronically found as verbs, though they show the typical augmented structure of a verbal stem. Some adjectives show hybrid behavior, illustrating their verbal origin. For instance, *khumdu* ‘tasty’ does not have a corresponding verb with the citation form *khumma*. Yet, the adjective can be inflected for number and negation like a verb. Person and TAM marking are not possible, however.¹ The same behavior is found for *ŋgolemninna* ‘not smooth’, *llininna* ‘not heavy’.

- (3) a. *khumdu=ha* *caleppa*
 tasty=NMLZ.NC bread
 ‘tasty bread’
 b. *kha* *cuwa* *ŋ-khumdi-n=ha!*
 this beer NEG-tasty-NEG=NMLZ.NC
 ‘This beer is not tasty!’

¹The affirmative forms always display *-u*, while the negative forms always display *-i*.

Some bases with unclear origin are *heko* ‘other’, *ucun* ‘good’ and *mam* ‘big’.

- (4) a. *mi=na* *khesup*
 small=NMLZ.SG bag
 ‘a/the small bag’
 b. *māḍa* *luṅkhwak*
 huge[NMLZ.SG] stone
 ‘a/the huge rock’²

There are only very few adjectives that do not take the nominalizers *=na* and *=ha*. Another nominalizer, *-pa*, is found lexicalized in *ulippa* ‘old’. Other adjectives appearing without prior nominalization are *maṇḍu* ‘far’ and *upunḡe* ‘free’. Lexemes with initial *u-* are occasionally found among adjectives, but more frequently in adverbs. They originate from obligatorily possessed nouns (see §6.3).

Many roots can serve as adjectival or as adverbial bases (see also §6.3). A common marker for adverbial derivation is the comitative *=nuṅ* (also functioning as nominal case marker). Compare the use of *cattu* in (5a) and (5b).

- (5) a. *cattu=na* *pik* *apt-u!*
 strong=NMLZ.SG cow bring_across-3.P[IMP]
 ‘Bring a fat/strong cow!’
 b. *ka* *tonḍaṅ* *um-me?-nen*, *nda* *cattu=nuṅ*
 1SG[ERG] from_above pull-NPST-1>2 2SG strong=COM
 lab-u-g=hoṅ *tokha?la* *ky-a*
 hold-3.P[IMP]-2.A=SEQ upwards come_up-IMP
 ‘I will pull you up, grab it firmly and come up!’ [01_leg_07.329]

6.1.2 Color terms

The system of Yakkha color terms is worth mentioning because it only has four basic color terms, with a privative distinction of *phamna* ‘red’ and *phimna* ‘non-red’, in addition to the two terms at both ends of a monochrome lightness-scale, *makhurna* ‘black’ and *phuna* ‘white’. Such an economical system is rather rare crosslinguistically, but the prominence of red conforms to the distributional restrictions discovered in the seminal study of Berlin & Kay (1969: 2ff.):

- All languages contain terms for white and black.
- If a language contains three terms, then it contains a term for red.

²This adjective has undergone a sound change: the nonsingular form is *mamha*, but the singular form became *māḍa*, as a result of former **mamna*.

- If a language contains four terms, then it contains a term for yellow or green, but not both.

Via several derivations and combinations of the terms for red and non-red with the terms for black and white, one arrives at eleven color terms, shown in Table 6.1 (in their singular forms with =*na*). The term *phamna* comprises red, brown red and orange, and the term *phimna* covers everything non-red, from yellow over green to blue. There is another word *phiriryaṇna* for ‘yellow’, but it is only used for food items, and could be derived from the same root as *phimna*. Nowadays, a Nepali loan for ‘yellow’ has entered the language, replacing *phimna* in this usage: *besareṇa*, derived from Nepali *besār* ‘turmeric’. The monochrome terms can be used to specify the color terms with regard to their brightness or darkness, e.g. *maklup-maklupna phimna* for ‘dark blue, dark green’, or *maklup-maklupna phamna* for ‘dark red, bordeaux red’.

STEM	GLOSS
<i>phamna</i>	‘red’
<i>phimna</i>	‘(yellow), green, blue’
<i>phuna</i>	‘white’
<i>makhurna</i>	‘black’
<i>phalik-phalikna</i>	‘reddish, pink, violet (dark and light shades)’
<i>phiṛlik-phiṛliṇna</i>	‘greenish, blueish (sky blue, petrol, light green)’
<i>phiriryaṇna</i>	‘yellow (food)’
<i>besareṇa</i> [NEP]	‘yellow’
<i>phutingirik</i>	‘bright white’
<i>phutlek-phutlekna</i>	‘light grey, light yellow, light pink, beige’
<i>maklup-maklupna</i>	‘dark brown/grey/blue/green/red’

Table 6.1: Color terms

In order to distinguish the colors on the large scale of what is covered by *phimna*, further modifications or comparisons can be made (see (6)).

- (6) a. *sumphak loṭa=na phim=na*
 leaf like=NMLZ.SG non-red=NMLZ.SG
 ‘as green as a leaf’
- b. *besar loṭa=na phim=na*
 turmeric like=NMLZ.SG non-red=NMLZ.SG
 ‘as yellow as turmeric’

- c. *massi loʔa=na phim=na*
 ink like=NMLZ.SG non-red=NMLZ.SG
 ‘as blue as ink’

It is very likely that the bases of the color terms are also verbs historically. (Doornenbal 2009: 292) mentions a verb *makma* ‘be dark’ for Bantawa, which must be cognate to *makhurna* ‘black’ in Yakkha. Yakkha has a verbal stem *phut* referring to the process of becoming white, so far only found in connection with hair. The syllables *-lik* and *-lek* occurring in the derivations are also known as lexical diminutives and from the derivation of adverbs. In addition to color terms, there are the lexemes *om(na)* ‘bright, light’, *kuyum(na)* ‘dark’ and *chyanchyan(na)* ‘transparent’.

6.1.3 Adjectives in attributive and in predicative function

In attributive function, the adjectives always appear in their nominalized form (i.e. as relative clauses), apart from the few exceptions mentioned above.

- (7) a. *su=ha cuwa*
 be_sour=NMLZ.NC beer
 ‘sour beer’
 b. *lag=ha nasa=ci*
 be_salty=NMLZ.NSG fish=NSG
 ‘the salty fish’

In predicative function in copular clauses, some adjectives may appear simply in non-nominalized form. Compare the adnominal and predicative functions of *cancan* ‘high’ and *ucun* ‘good/nice’ in (8).

- (8) a. *nna cancan=na lunxhwak*
 that high=NMLZ.SG rock
 ‘this high rock’ [38_nrr_07.044]
 b. *nna dewan-dhunga banja lunxhwak sahro cancan*
 that Dewan-stone called rock very high
sa-ma=na
 COP.PST[3SG]-PRF=NMLZ.SG
 ‘That rock called Dewan stone was very high.’ [38_nrr_07.039]
 c. *ucun=na paŋ*
 good=NMLZ.SG house
 ‘a nice house’

- d. *purba patti dailo yuŋ-ma=niŋ ucun*
east side door put-INF=CTMP good
n-leŋ-me-n
NEG-become[3SG]-NPST-NEG
‘If they (the Linkha clan members) put the door to the east, it will not
be good.’ [11_nrr_01.016]

Other adjectives have to appear in nominalized form in the copular predicate, too. The nominalizers cannot be omitted in (9). While the base *mi* from (9a) is attested independently as a degree particle ‘a little’, the base *heko* is not attested independently.

- (9) a. *nhaŋ=go lambu=ca=le mi=na*
and_then=TOP road=ADD=CTR small=NMLZ.SG
leŋ-d-eʔ=na
become-V2.GIVE-NPST[3SG]=NMLZ.SG
‘And then, the road, too, becomes narrow (unexpectedly)!’
[28_cvs_04.011]
- b. *kaniŋ haksan heko=na om*
1PL COMPAR other=NMLZ.SG COP
‘He is different from us.’ [21_nrr_04.009]
- c. *uŋci=be=ca niŋwa heko=na leks-a=ha,*
3NSG=LOC=ADD mind other=NMLZ.SG become[3SG]-PST=NMLZ.NC
‘They also changed their mind.’ [41_leg_09.068]

6.2 Comparison, equation and degree

6.2.1 Degree

Adjectives can be modified by degree adverbs like *tuknuŋ* ‘completely’, *pyak* ‘a lot’, *mi/mimik/miyaŋ* ‘a little’, a deictic series of *khiŋ*, *ŋkhiŋ* and *hoŋkhiŋ* (‘this much’, ‘that much’, ‘as much as mentioned before’). Most of them are not restricted to adjectives, but may also be used with nouns or verbs (see Chapter 4.5 for an overview). Furthermore, there are some Nepali loans like *sahro* or *ekdam*, both best rendered as ‘very’. In (10a), the interrogative *ikhiŋ* ‘how much’ is used in an exclamative utterance.

- (10) a. *pyak cancan, ikhiŋ cancan!*
very high, how_much high
‘(It was) very high, how high!’ [38_nrr_07.039]

- b. *uŋ=ci=go miyaŋ mam=ha n-sa=ba*
 3NSG=TOP a_little big=NMLZ.NSG 3PL-COP.PST=EMPH
 ‘They were a little older (than me).’ [13_cvs_02.051]

There is no grammatical means to mark the excessive in Yakkha, no regular way of stating that some property is beyond a certain tolerable measure, as expressed by the English particle *too*. Excessiveness is expressed by the quantifiers *pyak* ‘(very) much’ or *tuknuŋ* ‘completely’, *ibebe* ‘(very/too) much’ and consequently it is not possible in Yakkha to contrast ‘very much’ and ‘too much’. Some adjectives have lexicalized the notion of excessiveness, all from the domain of taste so far: *khikcok* ‘quite bitter’, *lakcok* ‘quite salty’, *limcok* ‘quite sweet’. Although always the same morpheme *-cok* is involved, it is restricted to a very small semantic domain (at least according to the current data set), and thus it lacks the productivity that would be expected of a grammatical marker.

6.2.2 The equative

Equation is expressed by attaching the equative case *loʔa* ‘like’ to the standard of comparison (see (11)). The marker *-lo ~ lok ~ loʔ* is also known from Belhare as a comitative and an adverbial clause linkage marker (Bickel 1993) and as ‘manner suffix’ (deriving manner adverbs) from Bantawa (Doornenbal 2009: 299). In Yakkha, these functions are covered by the comitative marker *=nuŋ*. The equative *loʔa* may also be employed in complement clauses and equative clauses (‘seem like [proposition]’, ‘do as told/do as if [proposition]’).

- (11) a. *gumthali loʔa*
 swallow like
 ‘like a swallow’
 b. *anar loʔa et-u-ŋ=ha*
 pomegranate like perceive-3.P.PST-1SG=NMLZ.NSG
 ‘It seemed like pomegranate to me.’ [19_pea_01.011]

If properties are compared, the same structure is employed (see (12) and §6.1.2 for examples). The comparee may additionally be marked by an additive focus marker.

- (12) a. *na loʔa nna=ca māḍa*
 this like that=ADD big
 ‘That one is as big as this one.’
 b. *phuama chalumma loʔa keŋgeʔ=na*
 last_born_girl second_born_girl like tall=NMLZ.SG

‘Phuama is as tall as Chalumma.’³

The following example shows that the resulting postpositional phrase may also be nominalized, yielding a headed relative clause in (13a), and a headless relative clause in (13b).

- (13) a. *luplun loʔa=na lunɖhaŋ=be*
 den like=NMLZ.SG cave=LOC
 ‘in a cave like a den’ [22_nrr_05.095]
- b. *u-ma loʔa=na sa=na=i*
 3SG.POSS-mother like=NMLZ.SG COP.PST[3SG]=NMLZ.SG=EMPH
 ‘It was like a female.’ [19_pea_01.079]

The comparee is hardly ever expressed overtly in natural discourse. The following two examples were found in a narrative (14). Since comparees have a strong tendency to be topical, they mostly precede the standard of comparison.

- (14) a. *hau, kha=go, eŋ=ga yapmi loʔa=ha=ci=ca*
 EXCLA these=TOP 1INCL.POSS=GEN person like=NMLZ.NSG=NSG=ADD
 ‘Oh, these guys, they look like our people, too.’ [22_nrr_05.044]
- b. *ŋkha=ci=go kaniŋ=nun sahro toŋ-khuba loʔa*
 those=NSG=TOP 1PL=COM very fit-NMLZ like
men=ha=ci
 NEG.COP=NMLZ.NSG=NSG
 ‘As for those (guys), they do not seem particularly similar to us!’ [22_nrr_07.046]

6.2.3 The comparative and the superlative

The comparative and the superlative are covered by a construction in which either *haʔniŋ* or *haksan* have to be attached to the standard of comparison, which is mostly a noun or a pronoun (see (15)). Both comparative markers can be used interchangeably. The parameter of comparison does not receive any comparative marking; it appears in its basic form. Both markers have their origin in a converbal form (see also Chapter 5.2.3).

- (15) a. *heko=ha=ci=ga haʔniŋ pharak*
 other=NMLZ.NSG=NSG=GEN COMPAR different
 ‘different from the others people’s (language)’

³Terms based on birth rank are commonly used to address/refer to people, also outside the family context.

- b. *heko=ha nwak=ci haksan miyan alag [...]*
 otherNMLZ.NSG bird=NSG COMPAR a_little different [...]
sa=na=bu
 COP.PST[3SG]=NMLZ.SG=HSY
 ‘He was a bit different from the other birds, they say.’ [21_nrr_04.002]

Often, the parameter of comparison is not expressed by an adjective, but by an inflected verb (see (16)). Not only stative or ingressive-stative verbs are possible, as (16b) with an embedded clause clearly shows.

- (16) a. *ka un ha?nin tum-ŋa=na*
 1SG 3SG COMPAR be_ripe-1SG=NMLZ.SG
 ‘I am older than he is.’
 b. *ka nda ha?nin lam-ma ya-me-ŋ=na*
 1SG 2SG COMPAR walk-INF be_able-NPST-1SG=NMLZ.SG
 ‘I can walk (better/more) than you.’ (Lit.: ‘Compared to you, I can walk.’)

The standard of comparison may also be an adverb, as in (17).

- (17) *u-lan=ci encho ha?nin n-sas-a-ma*
 3SG.POSS-leg=NSG some_time_ago COMPAR 3PL-COP.PST-PST-PRF
 ‘Her legs got stronger than last time.’ (Lit.: ‘They became (something), compared to the last time.’)

In the superlative, the standard of comparison is always the exhaustive quantifier *ghak* ‘all’ (18).

- (18) a. *ghak ha?nin mi=na mima*
 all COMPAR small=NMLZ.SG mouse
 ‘the smallest mouse’ [01_leg_07.003]
 b. *ghak haksan tum=na pan*
 all COMPAR old=NMLZ.SG house
 ‘the oldest house’ [27_nrr_06.039]

6.3 Adverbs

Adverbs cover a wide range of functions, from grounding an event in time and space to specifying its manner, intensity, cause and other characteristics of an event. Adverbs in Yakkha can be grouped as follows:

- manner adverbs derived by the comitative =*nun*

- The most common base for these derivations are verbal roots (most of them attested synchronically), but other bases, such as demonstratives, are possible as well. Some bases do not exist as independent words, so that their word class and independent semantics cannot be reliably established.

The major strategy to derive manner adverbs is attaching the comitative case clitic =*nun* to roots of verbs with stative or ingressive-stative semantics (commonly both, which is evident from their interaction with tense-aspect morphology). The functions of the comitative marker range from nominal case marking to marking subordinate clauses, so that this type of adverb is strictly speaking a minimal adverbial clause.

(19) a. *khunʔ-kheʔ-ma=ninʔa* *li-nunʔ=ca*
 carry_on_back-V2.CARRY.OFF-INF=CTMP be_heavy=COM=ADD
n-leŋ-me-n
 NEG-become[3SG]-NPST-NEG

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VERBAL ROOT	ADVERB
<i>chak</i> ‘be/get hard/difficult’	<i>chaknun</i> ‘hard, difficult’
<i>cis</i> ‘be/get cold’	<i>cinun</i> ‘feeling cold’
<i>khikt</i> ‘be/get bitter’	<i>khiknun</i> ‘tasting bitter’
<i>li</i> ‘be/get heavy’	<i>linun</i> ‘heavily’
<i>limd</i> ‘be/get sweet’	<i>limnun</i> ‘tasting sweet’
<i>lakt</i> ‘be/get salty’	<i>laknun</i> ‘tasting salty’
<i>nek</i> ‘be/get soft’	<i>neknun</i> ‘softly, gently’
<i>nu</i> ‘be/get well’	<i>nunun</i> ‘well, healthy’
<i>tuk</i> ‘hurt’	<i>tuknun</i> ‘painfully’ ~ ‘completely’

Table 6.2: Manner adverbs derived by =*nun*

- ‘It will not get heavy when we carry it, too.’ [01_leg_07.044]
- b. *li=na* *babu*
 be_heavy=NMLZ.SG boy
 ‘a/the heavy boy’

6.3.2 Temporal adverbs

Many of the temporal adverbs, including the interrogative *hetnin* ~ *he?nin* ‘when’ involve the particle =*niŋ*, which is also found as a clause linkage marker for contemporaneous events. In contrast to the manner adverbs, the base for temporal adverbs is not verbal. Some roots are adverbs by themselves, some are demonstratives. The deictic roots *nam*, *chim* and *khop*, denoting distances counted in years (with the utterance context as zero point), do not occur independently. In these adverbs, =*niŋ* is employed for past reference, while for future, the same roots end in -*ma*, e.g. *namma* ‘next year’, *chimma* ‘two years later’. Table 6.3 provides an overview of the temporal adverbs.

Other temporal adverbs count the days before or ahead of the point of speaking. They are listed in Table 6.4 below, together with further temporal adverbs. Note that not all of them necessarily have the time of speaking as their point of reference. For instance, *wandikŋa* can mean ‘tomorrow’ or ‘next day’. Two temporal adverbs can be compounded, yielding terms with less specific reference.

ADVERB	GLOSS
<i>heʔniŋ</i>	‘when’
<i>asenniŋ</i>	‘(during) yesterday’
<i>enchoʔniŋ</i>	‘on the day before yesterday’
	‘recently’
<i>onchoʔniŋ</i>	‘long time ago’
<i>khaʔniŋ</i>	‘this time’
<i>ŋkhaʔniŋ</i>	‘that time’
<i>hoŋkhaʔniŋ</i>	‘right at that time’
<i>heniŋ</i>	‘(during) this year’
<i>namniŋ</i>	‘last year’
<i>chimniŋ</i>	‘two years ago’
<i>khopniŋ</i>	‘three years ago’
<i>namniŋ-chimniŋ</i>	‘some years ago’

Table 6.3: Temporal adverbs derived by =*niŋ*

ADVERB	GLOSS
<i>wandik-ucumphak</i>	‘some days/time ahead’
<i>okomphak</i>	‘two days after tomorrow’
<i>ucumphak</i>	‘the day after tomorrow’
<i>wandikŋa</i>	‘tomorrow, next day’
<i>hen-wandik</i>	‘thesedays’
<i>hensen</i>	‘nowadays’
<i>hen</i>	‘today’
<i>wandik</i>	‘later’
<i>lop</i>	‘now’
<i>khem</i>	‘shortly before’
<i>asen</i>	‘yesterday’
<i>encho ~</i>	‘day before yesterday’
<i>achupalen</i>	
<i>asenlek</i>	‘some days ago’
<i>asen-encho</i>	‘some time ago’

Table 6.4: Further temporal adverbs

6.3.3 Adverbs based on obligatorily possessed nouns

A completely different etymological source for adverbs (and a few adjectives) are obligatorily possessed nouns. The possessive prefix can show agreement with the subject of the verb that is modified by the adverb, as in (20), but mostly, the third person form is used. The shift from a noun to an adverb is evident from the fact that these words do not have any nominal properties other than taking the possessive prefix. Further nominal modification or case and number marking, for instance, are not possible, and they are not arguments of the verbs; one would expect agreement morphology if this was the case. Table 6.5 shows some examples. To my knowledge, similar lexicalizations have not been described for other Kiranti languages, except for a few examples from Belhare mentioned by Bickel (2003: 563), who e.g. provides a cognate to *ochonna* ‘new’. In *uhingilik* ‘alive’, not a noun, but the verb *hiŋma* ‘survive’ was the base for the derivation process, and the possessive prefix was probably added later, in analogy to the other adverbs.

- (20) a. *a-tokhumak yep-ma n-ya-me-ŋa-n=na*
 1SG.POSS-alone stand-INF NEG-be_able-NPST-1SG-NEG=NMLZ.SG
 ‘I cannot stand alone.’ [27_nrr_06.017]
- b. *o-tokhumak nin-ca-me?=na*
 3SG.POSS-alone cook-V2.EAT-NPST[3SG]=NMLZ.SG
 ‘He cooks and eats alone.’
- c. *eh, na nniŋ=ga piccha=go u-hingilik wet=na,*
 oh this 2PL=GEN child=TOP 3SG.POSS-alive exist[3SG]=NMLZ.SG
haku=ca tups-wa-m-ga=na,
 now=ADD meet-NPST-2PL.A-2=NMLZ.SG
 ‘Oh, your child is alive, you will meet her again.’ [22_nrr_05.087]
- d. *lambu o-tesraŋ ikt-wa-m=na*
 road 3SG.POSS-opposite chase-NPST-1PL.A=NMLZ.SG
 ‘We follow the road in the opposite direction (i.e. we run in the wrong direction).’ [28_cvs_04.024]

6.3.4 Adverbs derived by *-lik* ~ *-lek*

Another marker that is found frequently in adverbs (and in some adjectives) is the lexical diminutive *-lik* ~ *lek* (occasionally also *-rik* ~ *-rek*), as shown in Table 6.6. It is also used in the derivation of lexical nouns that are characterized by their small size (cf. Chapter 5.1.2). Cognates of this marker exist in other Kiranti languages, e.g. *-let* in Athpare Ebert (1997) and *-cilet* in Belhare (Bickel 2003). All of these

ADVERB/ADJECTIVE	GLOSS
<i>uhingilik</i>	‘alive’
<i>ollobak</i>	‘almost’
<i>otokhumak</i>	‘alone’
<i>ohoppalik</i>	‘empty’
<i>ochon</i>	‘new’
<i>ulippa</i>	‘old’
<i>ole?wa</i>	‘raw, unripe’
<i>otesran</i>	‘reversed’
<i>uimalan</i>	‘steeply down’
<i>uthamalan</i>	‘steeply up’

Table 6.5: Adverbs and adjectives originating in obligatorily possessed nouns

VERBAL ROOT	ADVERB	GLOSS
<i>caks</i> ‘overturn’	<i>cicanḡalik(-cicanḡalik)</i>	‘tumbling, overturning’ (in somersaults, bulky objects)
<i>hiks</i> ‘turn’	<i>hiklik</i>	‘turned around, upside down’
<i>ipt</i> ‘twist, wring’	<i>iplik(-iplik)</i>	‘properly [twisted]’
<i>kaks</i> ‘fall’	<i>kakkulik(-kakkulik)</i>	‘tumbling or rolling down’ (round objects, smooth movement)
<i>pekt</i> ‘fold’	<i>pektunḡulik</i>	‘[folded] properly, many times’
<i>phopt</i> ‘spill, pour’	<i>phoplek</i>	‘[pouring out] at once’
<i>si</i> ‘die’	<i>siklik</i>	‘[dying] at once’
<i>sos</i> ‘lie slanted’	<i>sontrik</i>	‘[manner of] sliding, falling’
<i>wakt</i> ‘bend forcefully’	<i>wakurik</i>	‘bent, crooked’
<i>hop</i> ‘rot’	<i>hobrek</i>	‘[rotten] completely’

Table 6.6: Adverbs derived by *-lik* (and allomorphs)

adverbs have verbal stems as their base, and often, the resulting adverbs occur with just these verbs, thus merely adding emphasis to the result of the verbal action, such as *iplik* ‘(properly) twisted’. Some forms in the table may also occur reduplicated. One ideophonic adverb ending in *-lek* was found, too: *picingelek*, imitating a high-pitched voice, like the calls of eagles or owls. Some examples can be found below in (21).

- (21) a. *maŋcwa phoplek lept-haks-u*
 water at_once throw-V2.SEND-3.P[IMP]
 ‘Pour out the water at once.’
- b. *pektungulik pekt-u=hoŋ u-lum=be kaici=ŋa*
 properly_folded fold-3.P[PST]=SEQ 3SG.POSS-middle=LOC scissors=INS
yub-haks-u=na
 cut-V2.SEND-3.P[PST]=NMLZ.SG
 ‘He folded it properly and cut it through in the middle with scissors.’
 [Cut and Break Clips, (Bohnmeyer et al. 2010)]

6.3.5 Marginal derivations

Two further derivations were found, but each only with a handful of lexemes. One derivation creates adverbs based on verbal roots and a suffix *-ci(k)*,⁵ and a reduplication of this complex of root and suffix. Three such adverbs were found, all from the semantic domain of experience: *hapcik-hapcik* ‘whinily, weepily’, *chemci-chemci* ‘jokingly, teasingly’, *yunci-yunci* ‘smilingly’.

Another morpheme that is found occasionally in adverbs is *-lley*. The currently known forms are: *cilleŋ* ‘lying on back’, *walleŋ* ‘lying on the front’, and *cilleŋ-kholleŋ* ‘rocking, swaying’ (like a bus on a bad road or a boat in a storm). There is a directional case marker *-leŋ* in Belhare (Bickel 2003; the notion expressed by *kha?la* in Yakkha), and thus it is very likely that this derivation has the same source, although such a marker does not exist in Yakkha synchronically.

6.3.6 Non-derived adverbs

Finally, there are also a few adverbs that have no transparent etymology, such as *hani* ‘fast’, *swak* ‘secretly’, *tamba* ‘slowly’,⁶ *pakha* ‘outside’ and *sori* ‘together’. Interestingly, these adverbs cannot be turned into adjectives by nominalizing them; one could for instance not say **soriha yapmici* ‘the people who are together’.

6.4 Reduplication, triplication and ideophones

Rhyming patterns as well as ideophones are very common in Yakkha adverbs and adjectives, and often both are combined. Since they are exceedingly rare in the other word classes, they can be taken as an indicator (albeit rather statistic

⁵Closing open syllables by /k/ is common in Yakkha, and also known from the treatment of Nepali loans see Chapter 3.3.

⁶The final syllable *-ba* is a nominalizer, but the origin of the stem *tam* is not known.

than categorical) for adverb-hood or adjective-hood. The bases for reduplication can be of verbal, adverbial or ideophonic nature, and, as always, some bases with obscure origin. The bases for triplication are always monosyllabic and lack independent meaning. Ideophonic adverbs are based on a similarity relation between their phonetic form and the concept they express. This is not necessarily a relation based on acoustic similarities (as in onomatopoeia); other senses such as sight, taste or smell can as well be involved in ideophonic expressions. Hence, the relation between signifier and signified is more iconic than in ‘core lexemes’, where the semantics and the phonological form are in an arbitrary relationship.

The phonological behavior of reduplicated/triplicated forms and that of ideophones often shows deviations from the core lexicon, such as peculiar stress patterns or unusual segments that do not occur in nouns or verbs of the language (such as /gh/ or /bh/ in Yakkha). This has already been noted for Bantawa by Rai & Winter (1997), who label them ‘paralexemes’, relating the exceptional behavior of such forms to their emphatic or expressive function (expressing feelings or the attitude of the speaker).

Reduplicated adjectives and adverbs are always stressed on the second syllable (*can.can*). This suggests an analysis of reduplication as a prefixation. Bisyllabic words are generally stressed on the first syllable in Yakkha (cf. Chapter 3), but since prefixes are not part of the stress domain in Yakkha, words consisting of prefix and monosyllabic stem are stressed on the second syllable. Triplicated forms are always stressed on the last syllable, which is exceptional for Yakkha stress assignment.

6.4.1 Reduplication in adjectives

The reduplicated adjectives mostly relate to physical features like size, form or texture. Another group are adjectives based on experiencer verbs. The above-mentioned pattern of nominalization to indicate attributive or nominal usage (cf. §6.1.1) also holds for adjectives derived by reduplication (see (22)).

- (22) a. *u-yabulu?a ikhiŋ jonjon=na!*
 3SG.POSS-lips how_much elevated=NMLZ.SG
 ‘How bulging his lips are!’
- b. *chainpur cancan=na=be wai?=na*
 Chainpur high=NMLZ.SG=LOC exist[3SG]=NMLZ.SG
 ‘Chainpur is in a high (place).’
- c. *a-phok gangaŋ leks-a=na*
 1SG.POSS-stomach burstinglly_full become[3SG]-PST=NMLZ.SG

‘My stomach is now full as a tick.’

Table 6.7 shows the verbal roots serving as bases (as far as they can be reconstructed) and the corresponding reduplicated adjectival forms. Generally, post-nasal voicing of unaspirated consonants applies, and is copied to the first syllable to yield maximal identity between base and reduplicated syllable. Thus, forms like *bumbum* or *jonjon* emerge, which are unusual from the perspective of Yakkha phonological rules, because they display voiced initial obstruents in a language that has largely lost the contrast between voiced and unvoiced obstruents. The only exception is *cancan*, which retains its unvoiced obstruents, but the affricate behaves exceptional also in other lexemes with respect to the voicing rule. With regard to the verbal bases, augmented stems (i.e. with a CVC-t structure) omit the augment /-t/ before reduplicating. Stems alternating between a CVC-s and a CVN structure (such as *caks* ~ *can*), generally choose the CVN stem form as base for the reduplication (see Chapter 8.1 for stem formation). If the base has CVC structure and the consonants have the same place of articulation, this does not result in gemination in the reduplicated form. Rather, the coda consonant is omitted in the first syllable (e.g. *pha* ‘*phap*’). Some of these adjectives can be combined to yield further meanings, e.g. *chekchek-bonbon* (low-elevated) ‘zig-zag, uneven’.

Some adjectives derived from experiential verbs are shown in Table 6.8. They always have causative semantics, as shown in (23). Their bases are from those experiential verbs that code the experiencer as possessor (cf. Chapter 11.1.10). These verbs consist of a noun (denoting a sensation or a body part) and a verb, often a motion verb. The reduplication involves only the verbal stem of these compounds. In attributive position, they host the usual nominalizers =*na* or =*ha*. Since the stem *ke?* ‘come up’, that is involved in many of these compounds, ends in a glottal stop, which never occurs word-finally in Yakkha, it is replaced by /k/ at the end of the word.

- (23) a. *batti* *chik-ʔekek* *leks-a=na!*
 electricity causing_hate become[3SG]-PST=NMLZ.SG
 ‘The power cuts drive me mad already!’
- b. *hakamba-keke?=na* *ceʔya*
 making_yawn=NMLZ.SG matter
 ‘talk that makes me sleepy’

VERBAL BASE	ADJECTIVE	GLOSS
<i>cand</i> ‘rise up’	<i>cancan</i>	‘tall, high’
<i>chekt</i> ‘close’	<i>chekchek</i>	‘deep, low, narrow’
-	<i>chenchen</i>	‘with longer side in horizontal position’ ‘sidesleeping’
<i>chiks</i> ~ <i>chin</i> ‘tighten, tie off’	<i>chinchin</i>	‘tight’
<i>chuks</i> ~ <i>chun</i> ‘be wrinkled’	<i>chunchun</i>	‘wrinkled’
<i>cos</i> ‘push’	<i>jonjon</i>	‘sticking out, bulging’
-	<i>gangan</i>	‘[belly] full as a tick’
<i>hupt</i> ‘tighten, unite’	<i>hubhub</i>	‘buxom, compact’
<i>kept</i> ‘stick, glue’	<i>kepkep</i>	‘concave, sticking to’
-	<i>lenlen</i>	‘horizontally huge, lying’
<i>mopt</i> ‘cover, close’	<i>mopmop</i>	‘covered’
-	<i>nepnep</i>	‘short in height’
-	<i>pakpak</i>	‘hollow, bowl-shaped’
<i>pekt</i> ‘fold’	<i>pekpek</i>	‘flat, thin, folded’
<i>phaps</i> ~ <i>pham</i> ‘entangle’	<i>phaphap</i>	‘[hair] entangled, scraggy’
<i>phopt</i> ‘spill, turn over’	<i>phophop</i>	‘face-down, overturned’
<i>pok</i> ‘get up, rise’	<i>pokpok</i>	‘in heaps, sticking out’
<i>poks</i> ~ <i>pon</i> ‘explode’	<i>bonbon</i>	‘elevated, convex’
<i>pups</i> ~ <i>pum</i> ‘tuck up, roll in fist’	<i>bumbum</i>	‘[plastering of a house] thickly’/ ‘[body parts] swollen’/ ‘[teeth] sticky’
-		
<i>pur</i> ‘cut off, break off’	<i>pupup</i>	‘chubby, short and fat’
-	<i>sepsep</i>	‘thin, not healthy’
<i>sos</i> ‘lie slanted’	<i>sonson</i>	‘[sliding] slanted, horizontally’
<i>yok</i> ‘search, look for’	<i>yokyok</i>	‘carefully, balancing’

Table 6.7: Adjectives derived by reduplication

VERBAL BASE	ADJECTIVE	GLOSS
<i>lok-khot</i> ‘get furious’	<i>lok-khokhok</i>	‘causing fury’
<i>chik-ek</i> ‘get angry/hateful’	<i>chik-ekek</i>	‘causing anger/hate’
<i>hakamba-ke?</i> ‘yawn’	<i>hakamba-kekek</i>	‘making yawn, making tired’
<i>luṇma-tukt</i> ‘love’	<i>luṇma-tuktuk</i>	‘loveable, pitiable’
<i>pomma-ke?</i> ‘get lazy’	<i>pomma-kekek</i>	‘making lazy’
<i>yuncama-ke?</i> ‘have to laugh’	<i>yuncama-kekek</i>	‘funny, ridiculous’
<i>chippa-ke?</i> ‘be disgusted’	<i>chippa-kekek</i>	‘disgusting’

Table 6.8: Adjectives derived from experiential verbs

VERBAL BASE	ADVERB	GLOSS
<i>cend</i> ‘wake up’	<i>cencen</i>	‘[sleeping] lightly’
<i>chups</i> ‘gather’	<i>chumchum</i>	‘gathered, economically, sparing’
<i>chuṇ</i> ‘wrap, pack’	<i>chuṇchuṇ</i>	‘sadly, sunken’
<i>lus</i> ‘roar, deafen’	<i>lumlum</i>	‘loudly, powerfully’
<i>maks</i> ‘wonder’	<i>maṇmaṇ</i>	‘wondering’
<i>sips</i> ‘twinkle, squint’	<i>simsim</i>	‘squinting, blinking’

Table 6.9: Adverbs derived by reduplication of verbal roots

6.4.2 Reduplication in adverbs

Table 6.9 shows adverbs derived by reduplication. Their number is far lower than that of reduplicated adjectives. The verbs that provide the base for the adverbs may occur together with the adverbs that are derived out of them, see e.g. (24a). In such cases, it is hard to say what the semantic contribution is made by the adverbs, apart from emphasis. In the same example the adverb also serves as base for a rhyme *miṇmiṇ*, which adds further emphasis. For *lumlum* ‘loudly’, it is not quite clear whether it may also have an onomatopoeic component.

- (24) a. *maṇmaṇ-miṇmiṇ* *m-maks-a-by-a-ma*,
wondering-RHYME 3PL-be_surprised-PST-V2.GIVE-PST-PRF
‘They were utterly surprised.’ [22_nrr_05.028]
- b. *lumlum* *mokt-u-ga=i!*
loudly beat-IMP[3.P]-2.A=FOC
‘Beat (the drum) loudly!’

VERBAL BASE	ADVERB
<i>ipt</i> ‘twist, wring’	<i>iblik-iblik</i> ‘twisted’
<i>sips</i> ‘close [eyes]’	<i>simik-simik</i> ‘blinking’
<i>khik</i> ‘be bitter’	<i>ekhik-ekhik</i> ‘tasting bitter’
<i>khumdu</i> ‘tasty’	<i>ekhumdu-ekhumdu</i> ‘tasting good’
<i>man̄du</i> ‘far’	<i>eman̄du-eman̄du</i> ‘far away’
-	<i>esap-esap</i> ‘swiftly’
-	<i>elok-elok</i> ‘from far away’

Table 6.10: Reduplication of adverbs

Reduplication of independent adverbs (and adjectives) is also possible, expressing intensity or iterativity (see (25)).⁷

- (25) a. *sakhi iblik-iblik ipt-a=na*
thread twisted-REDUP twist-PST[3SG]=NMLZ.SG
‘The thread is properly twisted.’
- b. *batti simik-simik hand-u=na*
light blinking-REDUP burn-3.P[PST]=NMLZ.SG
‘The (electric) torch is blinking.’

Some of the reduplicated adverbs add /e-/ to each component, without further change of meaning (see Table 6.10). This ‘marker’ occurs only in the reduplicated forms. It is attested also for Belhare, analyzed as marking extension (Bickel 1997a).

6.4.3 Triplication

Triplication patterns, similar to those found in Bantawa and Chintang (cf. Rai (1984), Rai & Winter (1997), Rai et al. (2005)) were also found in Yakkha (see Table 6.11). Triplicated forms in Yakkha differ from those in the two above-mentioned languages in three ways:

- (i) their bases do not have an arbitrary (non-iconic) meaning; most of them have an ideophonic component (i.e. an iconic relationship between the concept expressed and the phonological form)
- (ii) they never host the suffix *-wa* (which is a property of Chintang and Bantawa triplicated adverbs)⁸

⁷See Doornenbal (2009: 304) for a similar point on Bantawa triplicated adverbs.

⁸The suffix is an adverbializer in these languages.

ADVERB	GLOSS
<i>bhututu</i>	‘farting sound’
<i>gururu</i>	‘[coming] in flocks, continuously (e.g. at festivals)’
<i>haŋcaŋcaŋ</i>	‘dangling’
<i>hibibi</i>	‘[wind] blowing gently’
<i>hururu</i>	‘[wind] blowing strongly’ (also in NEP)
<i>khiriri</i>	‘spinning, revolving’
<i>lututu</i>	‘[dough, soup] being too thin’
<i>pelele</i>	(i) ‘pulling sth. heavy or blocked’ (ii) ‘[shawl, clothes] come undone’
<i>phelele</i>	‘[bird flying] up high’
<i>philili</i>	‘[butterfly] jittering’
<i>phururu</i>	‘[manner of] strewing, dispersing’
<i>pololo</i>	‘[bamboo, construction materials] being too long to handle’
<i>pururu</i>	‘[flowing] in streams’
<i>selenleŋ</i>	‘[wind] blowing strongly such that leaves start to rustle’
<i>silinlin</i>	‘shaking’
<i>siliklik</i>	‘fuming with anger’
<i>serere</i>	‘[drizzling] thinly, [morning sunbeams] thinly’
<i>sototo</i>	‘[walking, moving] one after the other’
<i>thokokok</i>	‘shaking heavily [from fever, earthquake]’
<i>tholoklok</i>	‘[boiling] vigorously’
<i>tururu</i>	‘[blood, tears] flowing, dripping’
<i>walaŋlaŋ</i>	‘bursting out in laughter’
<i>yororo</i>	‘[fire wood heap, rice terrace] falling and tearing along’

Table 6.11: Adverbs involving triplication

examples from natural language are shown in (27). The adverbs that modify processes or activities have a reduplicated structure; only those that modify punctual events do not occur in reduplicated form. The bases for the reduplication can consist of up to three syllables. Ideophones often show some deviating behavior regarding the general phonological outlook of a language. The same can be said about Yakkha ideophones. Initials such as /g^h/ or /j^h/ are not found beyond ideophones, and voiced initials like /b/ are rare, too.

- (27) a. *na picha khoʔluk-khoʔluk*
 this child coughing-REDUP
hot-a-s-heks-a=na
 cough-PST-V2.DIE-V2.CUT-PST[3SG]=NMLZ.SG
 ‘This child is about to die, having a the coughing fit.’
- b. *u-lan men-da-le=na picha khobak-khobak*
 3SG.POSS-leg NEG-come-NEG=NMLZ.SG child crawling-REDUP
lam-meʔ=na
 walk-NPST[3SG]=NMLZ.SG
 ‘The child that cannot walk (yet) moves crawling.’
- c. *boʔle-boʔle ceŋ-meʔ=na*
 stammering talk-NPST[3SG]=NMLZ.SG
 ‘He is stammering.’
- d. *sukluk ips-a-khy-a=na*
 dozing_off sleep[3SG]-PST-V2.GO-PST=NMLZ.SG
 ‘She dozed off.’
- e. *ka ebbebe kisit-a-ŋ khoŋ ghwa-ghwa hab-a-ŋ*
 1SG trembling be_afraid-PST-1SG so_that bawling cry-PST-1SG
 ‘I was scared, so that I bawled out loudly.’ [42_leg_10.047]
- f. *uŋci=ga sokma thwaŋ nam-ma*
 3NSG=GEN breath smelling_awfully smell[3]-PRF
 ‘Their breath smelled awfully.’ [41_leg_09.045]

ADVERB	MEANING
<i>boʔle-boʔle</i>	[manner of] stuttering, stammering
<i>chok</i>	suddenly [piercing]
<i>ebbebe</i>	trembling
<i>ghok-ghok</i>	pig grunts
<i>ghwa-ghwa</i>	bawling
<i>hesok-hesok</i>	[manner of] breathing with difficulty
<i>hobrok</i>	[falling, dropping] at once
<i>honghak-honghak</i>	[walking] with sudden steps (like drunken people)
<i>jhellek</i>	flashing
<i>kai-kai</i>	[sound of] weeping
<i>kerek-kerek</i>	chewing hard things (like bones)
<i>khobak-khobak</i>	[manner of] crawling
<i>khoblek</i>	[manner of] finishing the plate
<i>khoʔluk-khoʔluk</i>	[sound of] coughing
<i>kurum-kurum</i>	chewing hard, crunchy things (like chocolate)
<i>kyan-kyan</i>	barking lightly
<i>lak</i>	being dropped
<i>oenk-oenk</i>	buffalo grunts
<i>phorop-phorop</i>	[sound of] slurping (e.g. tea, soup)
<i>phutruk-phutruk</i>	[manner of] jumping around
<i>syən</i>	[flying] like a rocket, by being thrown or shot
<i>sukluk</i>	dozing off for a short moment (like in a boring meeting)
<i>tanpharan-tanpharan</i>	staggering
<i>thaʔyan-thaʔyan</i>	[manner of] walking with difficulty
<i>thulum-thulum</i>	wobbling (like fat or breasts)
<i>thek</i>	[manner of] hitting lightly
<i>thwan</i>	sudden bad smell
<i>tuk-tuk</i>	[sitting] squatted, crouching
<i>whan-whan</i>	[barking] loudly
<i>wop</i>	[manner of] slapping with full hand (producing a deep, loud sound)
<i>yakcik-yakcik</i>	[sound of] squeezing, chewing (e.g. chewing gum)
<i>yakpuruk-yakpuruk</i>	[sound of] squeezing (e.g. millet mash for beer)
<i>yanʔan-yanʔan</i>	[manner of] toppling over (humans and objects)

Table 6.12: Ideophonic adverbs

7 The geomorphic orientation system

7.1 Introduction

Geomorphic¹ spatial expressions present an absolute system, relying on the features of the landscape. The anchor of this system is the inclination of the steep hills that shape so many aspects of life in the Kiranti area (see also Figure 7.1). The system is absolute, as the directions of uphill and downhill are grounded in the environment and do not depend upon the orientation of the speaker or any other object, but it can also be deictic, because these directions are in many cases defined from the perspective of the utterance context.

As a distinctive feature of Kiranti languages, geomorphic systems have been the subject of a number of studies, e.g. Allen (1972) for Thulung, Bickel (1994; 1999a; 1997c; 2001) for Belhare, Gaenszle (1999) for Mewahang, Dirksmeyer (2008) for Chintang.² What makes Kiranti languages special is that this topography-based deixis is also used for micro-location, for instance for distinguishing two glasses on a table or two branches on a tree.

There are two mapping systems, large-scale, defined by the global inclination of the Himalayas (roughly, ‘uphill’ can be equated with ‘north’ in this mapping system), and small-scale, defined by the cline of individual hills. As also pointed out by Bickel (1997c: 55) for Belhare, the large-scale abstraction ignores the cline of individual hills, and the small-scale abstraction ignores horizontal planes on a hill. To give an example for the large-scale abstraction: speakers refer to any location outside the Himalayas (even as far away as Europe or America) as ‘downhill’. To give an example for the small-scale abstraction: rooms on the same level of the house are divided into ‘uphill’ and ‘downhill’ rooms, depending on which side of the house faces the hill on which it is located. The latter can be extended to refer to ‘up’ and ‘down’, too (as in ‘up into the sky’).

¹Terminology following Bickel (1997c).

²Geomorphic orientation systems are, however, not unique to Kiranti languages. Another famous example is the Mayan language Tzeltal (Brown & Levinson 1993).



Figure 7.1: A typical trail in Tumok

Geomorphic deixis permeates Yakkha grammar; it features in a number of word classes and grammatical subsystems, in demonstratives, adverbs, postpositions, verbs and even interjections.³ This shows how deeply rooted the geomorphic system is in the grammar of Yakkha, and how strongly environmental factors may shape a language.⁴ Bickel & Gaenszle (1999) also point out the salience of the ‘hill’ conception in cultural domains such as architecture, rituals and mythology in the Kiranti cultural sphere. For Yakkha, this connection remains to be studied.

In the following, I will briefly lay out the system, before illustrating its application in each word class. Geomorphic forms in Yakkha are based on two sets of roots, called /u/-forms and /o/-forms in the following discussion. They indicate a threefold distinction: words based on *tu* and *to* for ‘uphill’, on *mu* and *mo* for ‘downhill’ and on *yu* and *yo* for ‘across (at the same altitude)’. The distinction between the /u/-forms and the /o/-forms is one of deictic transposition, as in Belhare (see Bickel 1997c; 2001).

The schematic diagrams in Figure 7.2 and Figure 7.3 provide a bird’s eye view on the deictic field, and the black dots indicate the speaker. In both sets, the deictic

³Other Kiranti languages like Belhare, Bantawa or Khaling furthermore distinguish altitude in their locative case systems (Ebert 1994, Bickel 1997c).

⁴The Yakkha system (and Kiranti languages in general) also shows that spatial orientation is by no means universally egocentric (based on the body of the speaker), as had been claimed before the discovery of geomorphic deixis.

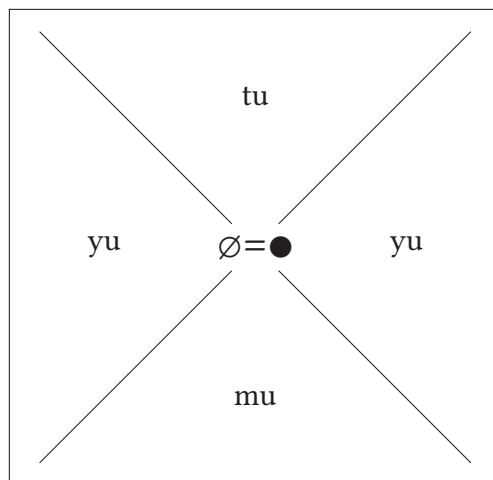


Figure 7.2: The deictic mapping system of the /u/-forms

field is partitioned into four quadrants. In the /u/-forms, the point of reference for projecting the four quadrants (indicated by ‘Ø’) is located within the speech situation. Objects located uphill from the interlocutors are indicated by forms based on *tu*, objects located downhill from the interlocutors are indicated by forms based on *mu*, and objects on the same level (to either side of them) are indicated by forms based on *yu* (see Figure 7.2).⁵

In the /o/-forms, the point of reference for projecting the four quadrants is transposed to a location that is not identical to the speech situation. The distinctions between ‘uphill’, ‘downhill’ and ‘across’ are now determined from the perspective of this transposed point of reference (see Figure 7.3; positioning the speaker on the left side of the diagram was an arbitrary choice, he could as well have been posited on the right side; of course with a consequent reversal of *yo* and *khe*). Furthermore, if the transposed zero point is on the same elevation level as the interlocutors, a forth root *khe* comes into play, indicating the field between this new zero point and the speech situation. This field opens up only in the transposed system. The transposed zero point is important for generic statements and when

⁵Contrasts like left/right or front/back do exist in Yakkha, but they are rarely used in the expression of spatial orientation. The speakers are able to provide the lexemes when they are asked, but I have no instance of recorded natural speech using *pheksan* ‘left’ and *chuptan* ‘right’. From the available lexical information, the left side is connoted negatively; it is used metaphorically in a term for a malicious wizard, for instance. This also fits with the widespread perception of the left hand as impure in South Asian societies. The terms *ondan* ‘front’ and *heksan* ‘back’ are used more frequently than ‘left’ and ‘right’.

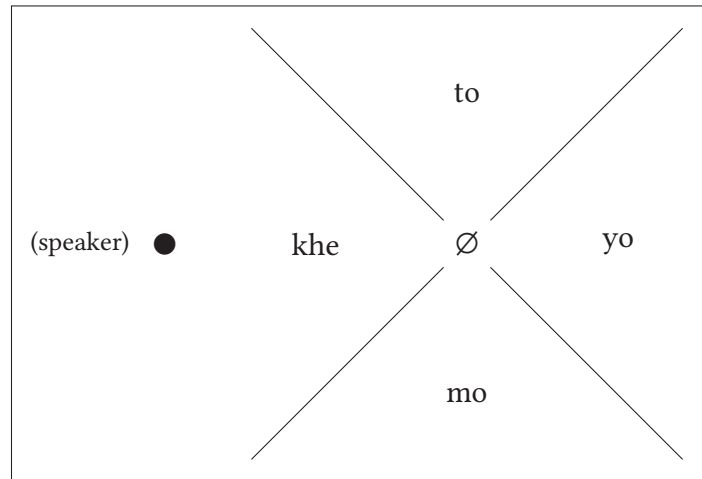


Figure 7.3: The transposed mapping system of *khe* and the /o/-forms

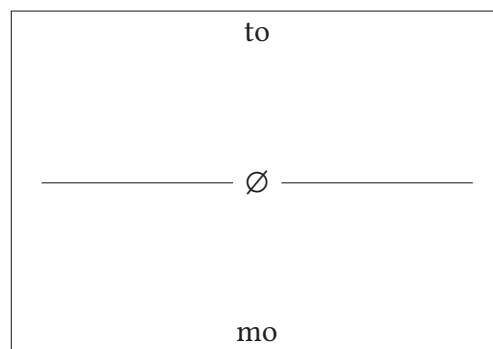


Figure 7.4: Object-centered usage of *mo* and *to*

the speaker talks about events he saw in movies, for instance. Given the transposed zero-point, it is only natural that there are more adverbs derived from the /o/-forms than from the /u/-forms, and the /o/-forms also serve as bases for spatial postpositions. Postpositions derived from the /u/-forms would only have the potential to locate objects with respect to the speech situation, not with respect to other objects.

The /o/-forms are also used to locate objects, or parts of objects, in relation to one another, for instance in order to determine the upper and the lower floor of a house, or in statements like ‘I climbed up the tree’, where one abstracts away from the topography. In this object-centered system of spatial orientation, the location of the speech situation is irrelevant. This is outlined in Figure 7.4. There are some fixed expressions like *mokhaʔla-tokhaʔla* ‘up and down’ (lit.: ‘down and up’). Similarly, *yo* and *khe* are used to convey contrasting directions on the same level (regardless of where the speaker is located), for instance in expressions like *yokhaʔla-khekhaʔla* ‘to and fro, back and forth’.

After this rather abstract characterization of the geomorphic orientation system of Yakkha, the remaining sections will illustrate how it is applied in each grammatical subsystem. Demonstratives (together with the interjections), are discussed in §7.2, adverbs in §7.3, postpositions in §7.4 and verbs in §7.5.

7.2 Demonstratives

There are two sets of demonstratives, one featuring the the deictic /u/-forms and one featuring the transposed /o/-forms, as summarized in Tables 7.1 and 7.2. Structurally, these subsets are different from each other, too. The /o/-forms are inherently adverbial and become nominal through nominalization with =*na* (SG) or =*ha* ~ =*ya* (NSG/NC). This is illustrated for *to* in example (1). These demonstratives can be used adnominally or pronominally. The /u/-forms are essentially adverbs, too, but they can also be used as interjections, i.e. as proforms for clauses (see example (2)). In this function they have a characteristic intonation. Uttered to attract the hearer’s attention and to make him look in a particular direction, they are often accompanied by pointing gestures. The /u/-forms always locate an object with respect to the speech situation, i.e., the zero point is identical to the utterance context. This explains why the /u/-forms can combine with the proximal demonstratives, *na* and *kha* (cf. §4.3), to yield the topography-specific demonstratives shown in Table 7.1.

DIRECTION	ROOT (ADV/INTERJ)	DEMONSTRATIVE (SG/NSG, NC)
UP	<i>tu</i>	<i>tunna/tukha</i>
ACROSS	<i>yu</i>	<i>yunna/yukha</i>
DOWN	<i>mu</i>	<i>munna/mukha</i>

Table 7.1: Geomorphic demonstratives, /u/-forms

DIRECTION	ROOT (adv.)	DEMONSTRATIVE (SG/NSG, NC)
UP	<i>to</i>	<i>tona/toha</i>
ACROSS (BEYOND)	<i>yo</i>	<i>yona/yoha</i>
ACROSS	<i>khe</i>	<i>kheha/kheha</i>
DOWN	<i>mo</i>	<i>mona/moha</i>

Table 7.2: Geomorphic demonstratives, /o/-forms and *khe*

- (1) a. *to khy-a!*
uphill go-IMP
'Go up!'
- b. *to=na paŋ*
uphill=NMLZ.SG house
'the upper house'
- (2) a. *mu! puchak!*
INT snake
'Look, down there! A snake!'
- b. *tu! maŋme!*
INT eagle
'Look, up there! An eagle!'

Examples of /u/-demonstratives are shown in (3). In (3a), the home of the person referred to by *buddhini* is located on the same level as the speaker's home, where she is sitting at the time of speaking. Example (3b) is from a mythical story that takes place in the environment and the array of villages as they are today, and the place called Manglabare is uphill from the speech situation (in Tumok village). The /u/-forms are also used for microlocation, such as pointing out a spider to the downhill side of the speaker, even if it is located on the same elevation level (see Figure 7.5).

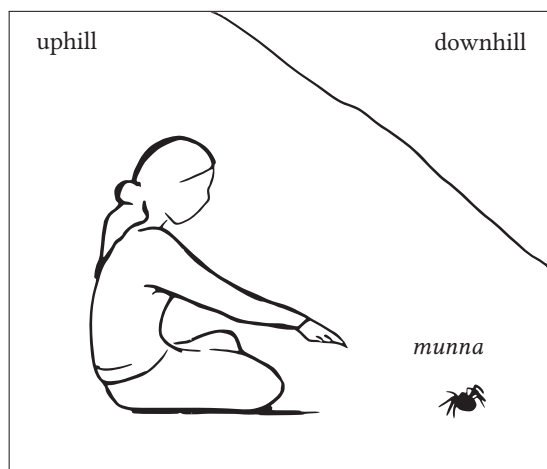


Figure 7.5: The /u/-forms in practice

- (3) a. *nhaŋ yunna buddhini=ca eko pi-ŋ*
 and_then this_across buddhist_woman=ADD one give[PST]-1SG.A
 ‘And I gave one to the buddhist woman (living) over there.’
 [36_cvs_06.387]
- b. *ŋ-ikt-uks-u-ci=hoŋ tunna maŋlabare*
 3PL.A-chase-PRF-3.P[PST]-3NSG.P=SEQ this_uphill Manglabare
n-da-ya-by-a-ma
 3PL-come-PST-V2.GIVE-PST-PRF
 ‘As they (the Limbus) chased them (Lalubang and Phalubang), they
 (the Limbus) already came up to Manglabare.’ (lit. ‘to Manglabare up-
 hill’)
 [22_nrr_05.029]

In contrast, the /o/-forms are found in generic statements (see (4a)), and in procedural descriptions, that are detached from the here and now of the speech situation (see (4c)). They are also found in contexts that open up a secondary deictic field, such as in movies (see example (4b) from a pear story).

- (4) a. *nhaŋ eko=bu, mo=na tala=ca*
 and_then one=HSY downhill=NMLZ.SG floor=ADD
me-wa-m=ha=bu
 NEG-live-INF[DEONT]=NMLZ.NSG=HSY
 ‘And one more thing: the Linkhas shall not live on the ground floor,
 too, it is said.’
 [11_nrr_01.040]

- b. *nhayna hon=na mamu=nun, saikal=be*
 and_then that_very=NMLZ.SG girl=COM bicycle=LOC
ta-yatasa=na yo=na mamu=ca, nhayna
 come[3SG]-PST.PROG=NMLZ.SG across=NMLZ.SG girl=ADD and_then
kha?la lukt-a-sy-a-ci, men=na=i?
 like_this bump_into-PST-MDDL-PST-DU COP.NEG=NMLZ.SG=Q
 ‘And that earlier girl and the girl that was coming on the bike, they
 collided like this, right?’⁶ [34_pea_04.025]
- c. *to=na paṇ=be ku-nun-ma,*
 up=NMLZ.SG house=LOC guard-V2.SIT-INF[DEONT]
sin-di-me, mo=na paṇ=be tha
 die-V2.GIVE[3SG]-NPST downhill=NMLZ.SG house=LOC knowledge
n-leṇ-me-n, ka-ma paṛyo ai?
 NEG-happen[3SG]-NPST-NEG, say-INF[DEONT] have_to TAG
 ‘In the upper house, people keep sitting at the sickbed, someone dies
 eventually – in the lower house, they have no idea, one has to tell
 them, right?’⁷ [29_cvs_05.028]

As pointed out in the introduction, the /o/-forms are also used when two objects are located with respect to each other, as in such cases the zero point is also not identical to the speech situation, but located between the related objects, such as in (5). In this example, two people look downhill, seeing two swallows, sitting on a parallel wires (as illustrated in Figure 7.6). Interlocutor A points out something about one of the swallows and interlocutor B wants to reconfirm whether he got the reference right. The zero point for the projection is located between the two birds. The demonstrative *tona* refers to the bird closer to the hill on which the interlocutors are located and that serves as the anchor of the relation, and *mona* refers to the bird on the wire further away from that hill. If the swallows had been located uphill from the interlocutors, the question would have been exactly the same as the one uttered in (5); the speech situation is irrelevant for the interpretation of this utterance.

- (5) *to=na=em mo=na=em?*
 uphill=NMLZ.SG=ALT downhill=NMLZ.SG=ALT

⁶The verb form *tayatasa* could not be analyzed, as no corresponding paradigm could be elicited. According to the Nepali translations, I tentatively labelled it ‘past progressive’.

⁷This example refers to another Yakkha custom: firing rifles for announcements, in pairs to announce marriages, and in single shots to announce the death of a member of the household. The choice of *tona* and *mona* in this example is arbitrary, it could as well be the other way round, as this is just an example made by the speaker to illustrate the custom; the sentence does not refer to any particular constellation of houses.

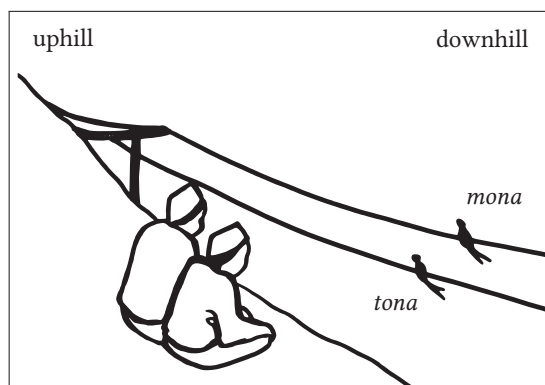


Figure 7.6: Illustration for example (5)

‘(Do you mean) the upper one or the lower one?’

The uphill-downhill distinction can also be mapped onto the human body, as in (6). These designations are used regardless of the orientation of a person, thus instantiating an exception to the topography-based system.

- (6) a. *mo=ha* *keŋ=ci*
 downhill=NMLZ.NSG tooth=NSG
 ‘lower teeth’
- b. *to=ha* *keŋ=ci*
 uphill=NMLZ.NSG tooth=NSG
 ‘upper teeth’

Things look slightly different on the horizontal plane: in example (7a), two houses are identified that are both on the same altitude level as the interlocutors. The house further away is referred to as *yona*, the closer one is *khe*, a distinction most closely rendered by ‘there, thither’ and ‘here, hither’ in the English translation (see also Figure 7.7, which features *mo* and *to* as well, cf. Figure 7.3 above). In Figure 7.7, the couple in the foreground represents the speech situation.

- (7) a. *eh, khe=na* *paŋ menna,*
 oh across_here=NMLZ.SG house NEG.COP=NMLZ.SG
 yo=na=le
 across_there=NMLZ.SG=CTR
 ‘Oh, not the closer house, the next one!’
- b. *mela=be* *yo* *khe* *son-ca-saŋ*
 market=LOC across_there across_here look-V2.EAT-SIM
 ‘Looking around in the market, ...’ [01_leg_07.152]

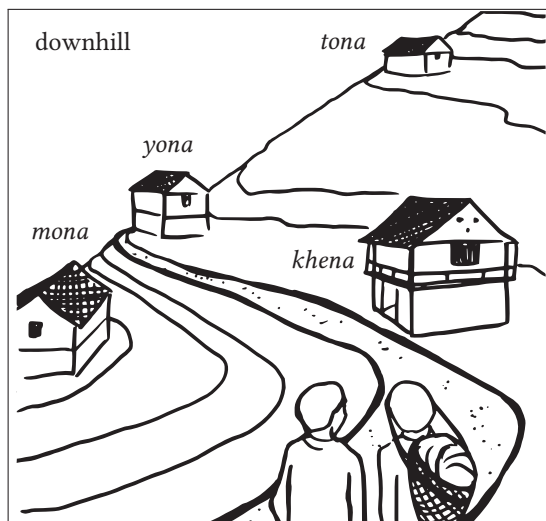


Figure 7.7: The transposed system in practice

The quadrant indicated by *yo* is always beyond some (real or imagined) boundary on the horizontal level, i.e. it is projected from a zero point that must be distinct from the speech situation. The space between that boundary and the speech situation is the field indicated by *khe*.⁸ In example (7a), the utterance context is relevant for the interpretation of *yo* and *khe*,⁹ while this is not the case for the *mo/to* distinction in (6b), for instance. As already mentioned above, the *yo/khe* contrast can also be used generically, independent of any particular utterance context, as in example (7b).

As the /u/-forms always rely on information that is retrievable from the utterance context, they are not compatible with the hearsay marker =*bu*. In (8), while (a) is perfectly fine, (b) is pragmatically awkward.¹⁰ Another example for /o/-forms combining with =*bu* is (4a) above.

- (8) a. *to=na minuma lukt-a-khy-a=na=bu?*
uphill=NMLZ.SG cat run[3SG]-PST-V2.GO-PST=NMLZ.SG=HSY
‘It was said that the upper cat ran away?’

⁸In this light, it also makes sense that *khe* is never used in opposition to *yu*. A *khe*-quadrant opens up only when the zero point for the projection is transposed, while the field indicated by *yu* projects directly from the speech situation.

⁹Note that it is not the case that *yona* always refers to the object between an upper and a lower object (the same is true for Belhare, see Bickel (2001)). If the speakers were standing on the level of the lower house, the demonstrative referring to it would change from *mona* to *yona*.

¹⁰The hearsay marker can occasionally also be found on embedded speech, both direct and indirect; see also Chapters 15.2.2 and 17.3.1.

- b. ?*tu-nna minuma lukt-a-khy-a=na=bu?*
 this_uphill cat run[3SG]-PST-V2.GO-PST=NMLZ.SG=HSY
 Intended: ‘It was said that the cat up there ran away?’

The examples in (9) show that the proximal/distal demonstratives (see Chapter 4.3.1) and the ‘uphill’/‘downhill’ demonstratives are not mutually exclusive; they can be used together in one syntagm. The former indicate proximity or distance to the speaker, while the latter locate the objects with respect to each other and the cline of the hill. In (9a), the zero point is located between the upper and the lower rocks of a group of rocks, and in (9b), the zero point is located in the middle of the road.¹¹

- (9) a. *na mo=na lunhkwak*
 this downhill=NMLZ.SG stone
 ‘this lower rock (of a group of rocks)’ [37_nrr_07.031]
- b. *mo=na u-lap, to=na u-lap,*
 downhill=NMLZ.SG 3SG.POSS-wing uphill=NMLZ.SG 3SG.POSS-wing
na lambu ghak ak=ka=i!
 this road all 1SG.POSS=GEN=EMPH
 ‘The uphill side, the downhill side, this road is all mine!’
 [36_cvs_06.206]

The examples in (10) illustrate abstractions away from the closest hill as the anchoring element. In (10a), *mu* refers to a place outside the hills and far away (Germany). In (10b), via reduplication of the initial CV-cluster, the root intensifies its meaning, i.e. *tutunna* refers to an object further away than *tunna*. These reduplications are also found in the corresponding adverbs (see §7.3 below).

- (10) a. *mu, [...] nnin=ghe i=ha*
 downhill [...] 2PL.POSS=LOC what=NMLZ.NSG
cog-wa-m-g=ha?
 do-NPST-2PL.A-2=NMLZ.NSG
 ‘Downhill, where you live, what do you do (when someone dies)?’
 [29_cvs_05.008]
- b. *tunna cokcoki=nun tu-tunna cokcoki*
 that_uphill star=COM REDUP-that_uphill star
 ‘the star up there and the star even further up’

¹¹ As the proximal/distal demonstratives *na/nn*a show a functional overlap with *khe*na and *yona*, these two sets are not expected to occur together.

7.3 Adverbs

This section discusses the adverbs that belong to the geomorphic orientation system. In Chapter 4.3 a set of adverbs has been introduced that is based on a proximal/distal/anaphoric distinction. The adverbs discussed in the following are based on the same distinctions between /o/-forms and /u/-forms as the demonstratives discussed in §7.2 above. Tables 7.3 and 7.4 provide an overview of all geomorphic adverbial expressions in Yakkha.

	UP	ACROSS	DOWN
LOC/INTERJ	<i>tu</i>	<i>yu</i>	<i>mu</i>
LOC-PROX	<i>tunhe</i>	<i>yunhe</i>	<i>munhe</i>
LOC-DIST	<i>tunnhe</i>	<i>yunnhe</i>	<i>munnhe</i>
LOC-DIST-EMPH	<i>tutunnhe</i>	<i>yuyunnhe</i>	<i>mumunnhe</i>

Table 7.3: Geomorphic adverbs, the /u/-forms

	UP	ACROSS PROX	DIST	DOWN
LOC/DIR	<i>to</i>	<i>khe</i>	<i>yo</i>	<i>mo</i>
DIR	<i>tokha?la</i>	<i>khekha?la</i>	<i>yokha?la</i>	<i>mokha?la</i>
ABL/DIR	<i>tondan</i>	<i>khendan</i>	<i>yondan</i>	<i>mondan</i>
LEVEL	<i>topparik</i>	<i>khepparik</i>	<i>yopparik</i>	<i>mopparik</i>
LEVEL-ABL	<i>topparindan</i>	<i>khepparindan</i>	<i>yopparindan</i>	<i>mopparindan</i>
QUANT	<i>torok</i>	<i>kherek</i>	<i>yorok</i>	<i>morok</i>
QUANT-EMPH	<i>to?torok</i>	<i>khe?kherek</i>	<i>yo?yorok</i>	<i>mo?morok</i>
LOC-PROX	<i>na?to</i>	<i>na?khe</i>	<i>na?yo</i>	<i>na?mo</i>
LOC-DIST	<i>nna?to</i>	<i>nna?khe</i>	<i>nna?yo</i>	<i>nna?mo</i>
LOC-PROX-QUANT	<i>na?torok</i>	<i>na?kherek</i>	<i>na?yorok</i>	<i>na?morok</i>

Table 7.4: Geomorphic adverbs, /o/-forms and *khe*

The adverbs based on the proximal/distal distinction are *nhe* ‘here’ (see (11a)) and *nnhe* ‘there’ (with initial gemination of the nasal). The adverb *nnhe* is used to refer to distant locations and to locations in another deictic field, as it is opened up for instance by a movie (see (11b) from a pear story) or by talking on the phone. The anaphoric form is *honnhe* ‘just there, at a location mentioned earlier’ (see also Chapter 4.3.2).

- (11) a. *imin=na, haku nhe, hen=se; haku*
 how=NMLZ.SG now here today=RESTR now
soʔ-ma=na=lai!
 look-INF[DEONT]=NMLZ.SG=EXCLA
 ‘How is he; now he (the prospective groom) is here, only today; now we have to look at him!’ [36_cvs_06.374]
- b. *qhakani=be s-wa, nnhe eko man=na*
 basket=LOC look-NPST[3SG.P] there one COP.NEG=NMLZ.SG
 ‘He looks into the basket, and there is not even one.’ [34_pea_04.040]

These proximal and distal adverbs can be specified further by combining them with the /u/-forms of the geomorphic set, in the same way as it has been shown above for the demonstratives. Both sets rely on the utterance context, and are, therefore, compatible. Altogether, one arrives at three more forms for each ‘here’ and ‘there’: *tunhe/tunnhe* ‘up here/there’, *munhe/munnhe* ‘down here/there’ and *yunhe/yunnhe* ‘across here/there’. The resulting complex forms are illustrated by the examples in (12).

- (12) a. *ηkha=nunη nhe gobar, pik=ka u-hi, bachi=ga,*
 that=COM here cow_dung cow=GEN 3SG.POSS-shit cow=GEN
goru=ga men=na, munhe khaʔla yun-ma=hoη
 ox=GEN NEG.COP=NMLZ.SG down_here like_this put-INF=SEQ
tika waʔ-meʔ-ma
 blessing wear-CAUS-INF[DEONT]
 ‘With this (*dubo* grass), here, cow dung, from a female cow, not from an ox, one has to place it down here like this and apply a blessing (at the main door of the house).’ [31_mat_01.089]
- b. *munne sombare daju=ge η-waʔ=ya=ci=bu,*
 down_there Sombare eB=LOC 3PL-exist=NMLZ.NSG=NSG=HSY
hau jeppa!
 EXCLA really
 ‘Oh! Sombare brother down below has some (mushrooms), they say, really!’ [13_cvs_02.079]
- c. *ka=go tunne bhitta=be*
 1SG=TOP up_there wall=LOC
heʔ-ma-sy-a-η=na=le, a-na=ηa,
 cut-INF-AUX.PROG-PST-1SG=NMLZ.SG=CTR 1SG.POSS-eZ=ERG
uks-a-ga=i, uks-a ly-a-η=hoη
 come_down-IMP-2=EMPH come_down-IMP tell-PST-1SG=SEQ
 ‘I was cutting (grass) up there at the wall, but my elder sister said: please come down, come down, ...’ [28_cvs_04.315]

As example (13) shows, the /u/-forms can also be used independently, in adverbial function.

- (13) *mu jetha=ηa biha cog-a bhon, mu*
 down first_born_male=ERG marriage do[3SG]-SBJV COND down
jetha=ηa hiη-ma=na
 first_born_male=ERG support-INF[DEONT]=NMLZ.SG
 ‘If Jetha down here marries a girl, he has to care for her.’ (pointing to some-
 one sitting in the same room as the speaker, but in the corner pointing
 downhill) [28_cvs_04.127]

A natural example of a reduplicated form is shown in (14). Typically, the reduplicated forms contrast an object further away with a closer object. In this example, however, the emphasis usually connected to this reduplication is not very strong; in the afterthought at the end of the sentence, the simple form *tunnhe* is used.¹² For instance, if the speaker points downhill towards two houses, the closer location is indicated by *munnnhe* ‘down there’ and the one further down is indicated by *mumunnnhe* ‘further down there’.

- (14) *ka ηkha?la bhon tu-tunnhe bhauju=ghe*
 1SG like_that COND REDUP-there_uphill sister-in-law=LOC
wa-ya-masa-η=na raecha, tunnhe=ba
 be-PST-PST.PRF-1SG=NMLZ.SG MIR there_uphill=EMPH
 ‘If it is like that, I had been uphill at my sister-in-law’s house, just up there.’
 [36_cvs_06.399]

The /o/-forms are used when the zero point is not located within the speech situation. Thus, they cannot combine in one word with the deictic forms *nhe* and *nnhe*. They can combine with other morphology, e.g. with case markers, to convey a variety of spatial notions, such as ablative and directive, shown in (15). The roots *mo*, *to* and *yo* are inherently locative, so that they cannot combine with the locative =*pe* (for instance, **mobe* is ungrammatical). Forms as in (15a) can be used both with an ablative and a directive reading.

- (15) a. *mondan ky-a=na.*
 from_below come_up[3SG]-PST=NMLZ.SG
 ‘He came up from below.’

¹²The mirative (see Chapter 17.3) is used here because the speaker finally remembers where she had been at a particular day some weeks prior to this conversation.

- b. *yondan eko mamu a-cya*
 from_over_there one girl 1SG-child
we=ppa=ʔlo!
 exist[3SG;NPST]=EMPH=EXCLA
 ‘(But) I have a daughter from (my ex-husband) over there!’
 [06_cvs_01.018]
- c. *tokhaʔla khy-a!*
 upwards go-IMP
 ‘Go upwards!’

The contrast between *yo* and *khe* (see also Figure 7.3 above) can be illustrated by the following context: the two villages Madi Rambeni and Madi Mulkharka are both located on a hill next to the hill on which Tumok is situated (see also the Map in Figure 2.2 in Chapter 2.1). These two hills are separated by a river (the Maya Khola), and thus both Madi Rambeni and Madi Mulkharka qualify as *yo* ‘across’ from Tumok. Both villages are roughly on the same altitude level as Tumok, but while Madi Mulkharka is right across (one can see its houses), Madi Rambeni is further away and out of sight. Thus, in a conversation (in Tumok) contrasting the two villages, Madi Mulkharka would be indicated by *khe*, while Madi Rambeni would be referred to by *yo*, since it is further away from Tumok than Madi Mulkharka.

Another set of adverbs is instantiated by adverbs such as *mopparik* ‘right below’ in (16). It refers to a place that is right below the point of reference, like a lower floor or a lower step on a ladder (*-parik* comes from the Nepali noun *paṭī* ‘side’).¹³ This set of adverbs, like the forms in (15), can also be used as postpositions (see §7.4 below).

- (16) *honna sem-khuba babu, pheri, i=ʔlo mopparik*
 that_very pluck-NMLZ boy again what=EXCLA right_below
jhar-a cok-ma-sy-a=na
 descend-NATIV do-INF-AUX.PROG-PST[3SG]=NMLZ.SG
 ‘That guy who was plucking, he was climbing down (the ladder).’
 [34_pea_04.036]

Furthermore, there are forms ending in the syllable *-rok ~ -rek*, i.e. *morok*, *torok*, *yorok* and *kherek*. They convey that something is located (or moving) a bit more in

¹³The change of coronal plosives to rhotics in intervocalic position is also attested elsewhere in the language, and closing a word-final CV syllable with /k/ is a common process in the ‘Yakkhification’ of lexical material from Nepali, see Chapter 3.3.

the respective direction than had been presupposed, thus quantifying the distance (see (17)). Example (18) illustrates the same with ablative forms.

- (17) a. *honkha?niŋŋa na?masek khi-khuwa yapmi=ci yorok*
 that_very_time night fight-NMLZ person=NSG a_bit_further
torok ŋ-wa-ya-masa
 a_bit_up 3PL-be-PST-PST.PRF
 ‘At that time, those fighting people had been (scattered) a bit further away and a bit further uphill.’ [41_leg_09.057]
- b. *nna ten=be=jhen, mo, yondan morok=ŋa*
 that village=LOC=TOP down from_across a_bit_down=INS
limbu=ci=ca ŋ-wa-ya-ma
 Limbu_person=NSG=ADD 3PL-be-PST-PRF
 ‘In that village below, across and then a bit below from there, Limbu people were living, too.’ [22_nrr_05.009]
- (18) a. *mondan kham ket-u-eba*
 from_below ground bring_up-3.P[IMP]-POL.IMP
 ‘Bring up mud from below.’
- b. *miyan morondan ket-u-eba*
 a_little from_further_below bring_up-3.P[IMP]-POL.IMP
 ‘Bring it up from a bit further below.’ (context: the mud is better further downhill)

The adverbs ending in *-rok~ -rek* can also be partly reduplicated, yielding forms like *mo?morok* or *to?torok*. Tentatively, in analogy to the reduplications discussed above, I conclude that this also amplifies the distance, but there are not enough examples in my data for any strong claims, and the reduplicated forms are also used when nothing has been presupposed (cf. also §7.4 on postpositions).

- (19) *beuli singara cok-se miyan yo?yorok*
 bride a_wedding_custom do-SUP a_little a_bit_further
ŋ-ghet-wa
 3PL.A-take-NPST[3.P]
 ‘To dress the bride with the sari that the groom got her, they take her a bit further away.’ [25_tra_01.043]

The last set of adverbs introduced here has the forms *na?mo*, *nna?mo*, *na?yo*, and so on. They are composed of the singular forms of the proximal/distal demonstratives and the /o/-forms, conveying ‘down here’, ‘down there’, ‘across here’ and so on (see Table 7.4). The cognate forms in Belhare are demonstratives that are

marked for environmental case (see Bickel 2001: 226ff). The environmental case system was probably present in earlier stages of Yakkha, too, but apart from these adverbial forms, there is no trace of such a system synchronically. The forms have characteristic stress, i.e. on the first syllable. They locate the utterance context from the perspective of another location. In (20a), the zero point is Manglabare, a place above Tumok (the place of speaking, referred to by *na?mo* ‘down here’). In (20b), the point of reference is the sky, mentioned in the adverbial clause. The sentence in (20c) was uttered by someone who confused two roads, and the point of reference is the point of departure of the speaker’s movement, before she confused the roads.

- (20) a. *haku nnakha laluban=nun phaluban=ga ten=go*
 now those Lalubang=COM Phalubang=GEN village=TOP
na?mo=man sa, en=ga=e
 down_here=EMPH COP.PST[3SG] 1PL.INCL.POSS=GEN=LOC
 ‘Now, that village of Lalubang and Phalubang, though, was down here, in our area.’ [22_nrr_05.034]
- b. *na tan?khe?be pes-a-khy-a-ma=ni?a na?mo*
 this sky=LOC fly-PST-V2.GO-PST-PRF[3SG]=CTMP down_here
heko=ha nwak=ci=?a haku nda nhe un-ma
 other=NMLZ.NSG bird=NSG=ERG now 2SG here come_down-INF
n-dokt-wa-ga-n=na n-lu-ks-u
 NEG-get_to_do-NPST-2.A[3.P]-NEG=NMLZ.SG 3PL.A-tell-PRF-3.P[PST]
 ‘When he flew up into the sky, down here the other birds told him: Now you will not get the chance to come down here any more.’ [21_nrr_04.034-5]
- c. *na?yo=le sa-?n=na, nna?yo=le*
 over_here=CTR COP.PST-1SG=NMLZ.SG over_there=CTR
khy-a-?n=na?
 go-PST-1SG=NMLZ.SG
 ‘But I was over here, did I go over there?’ [28_nrr_04.030]

With the introduction of these forms, one arrives at two sets that are translatable as ‘down/up/across here’ and ‘down/up/across there’, for instance *na?mo* and forms like *munhe* for ‘down here’. The contrast between forms like *na?mo* and *munhe* is, of course, the zero point. While *na?mo* implies a perspective from a location outside the speech situation (see (20) and (21)), *munhe* refers to a location in the downhill quadrant, as projected from the perspective of the speaker (see e.g. examples (12a)–(c) above). The speaker can choose whether he wants to locate objects from his own perspective or from someone else’s perspective,

and sometimes this is fixed by sociolinguistic conventions. In imperatives, for instance, it would be inappropriate to use one's own perspective, they are always expressed with /o/-forms, as in (21).

- (21) a. *naʔyo* *ab-a*
 over_here come_across-IMP
 ‘Come over here (from where you are).’
 b. *naʔmo* *uks-a*
 down_here come_down-IMP
 ‘Come down here (from where you are).’

The ‘quantifying’ or ‘degree’ derivation via *-rok* that was introduced above is also possible with *naʔto* (and the related forms), yielding forms like *naʔtorok* ‘a bit closer up here’.

7.4 Postpositions

The geomorphic postpositions are formally identical to the adverbs described in §7.3. They take nominal complements that are marked by the genitive case (see Chapter 5.2.2.4). The possessive prefix is, however, not possible on these postpositions, which distinguishes them from relational nouns (cf. Chapter 5.3). Table 7.5 provides an overview of the postpositions.

The postpositions *mopparik* and *topparik* indicate a relation of parallel planes located above/below each other, such as stacked books or floors of a house (see (22a)). Example (22b) shows a corresponding adverbial in a (semi-transparent) ablative form.¹⁴ The same is possible, on the horizontal level, with *yopparik* and *khepparik*.

If the speaker wants to express that an object is oriented towards a particular direction, the directional forms *tokhaʔla*, *mokhaʔla*, *yokhaʔla* and *khekhaʔla* are used; orientation away from another object is indicated by the ablative forms *tondaŋ*, *mondaŋ*, *yondaŋ* and *khendaŋ* (see (23)).

- (22) a. *tebul=ga* *mopparik*
 table=GEN right_below
 ‘below the table (on a lower level, e.g. on the ground)’

¹⁴In analogy to these examples, one could assume that there is also a directional *topparikhaʔla/mopparikhaʔla* to indicate directedness towards an upper/lower level, but such forms do not exist. Probably, *topparik* (and related forms) also have a directional meaning.

POSTPOSITION	GLOSS	INTERNAL STRUCTURE
<i>mopparik</i>	right below	‘downhill-side[Nep.]’
<i>topparik</i>	right above	‘uphill-side[Nep.]’
<i>yopparik</i>	right across	‘across-side[Nep.]’
<i>mokha?la</i>	below, downwards	‘uphill-DIR’
<i>tokha?la</i>	above, upwards	‘uphill-DIR’
<i>yokha?la</i>	across, away	‘across-DIR’
<i>monday</i>	from below	‘downhill-ABL’
<i>tonday</i>	from above	‘uphill-ABL’
<i>yonday</i>	from the same level	‘across-ABL’
<i>mo?morok</i>	a bit below	
<i>to?torok</i>	a bit above	
<i>yo?yorok</i>	a bit further away	
<i>khe?kherek</i>	a bit closer	

Table 7.5: Geomorphic postpositions

- b. *kancin mopparinday ky-a-ci=ha*
 1DU from_right_below come_up-PST-DU=NMLZ.NSG
 ‘We came up from the lower floor.’
- (23) a. *tebul=ga tokha?la*
 table=GEN upwards
 ‘above the table (e.g. a lamp installed on the wall)’
- b. *tebul=ga monday chwigam kept-u=na*
 table=GEN from_below chewing_gum glue-3.P[PST]=NMLZ.SG
 ‘Someone stuck chewing gum below the table.’

The partly reduplicated forms *mo?morok*, *to?torok* and *yo?yorok* convey that an object is located a bit in the respective direction, from the perspective of the object referred to by the complement noun (see (24)).

- (24) a. *uŋci-pan=ga mo?morok eko hoŋma*
 3NSG.POSS-house=GEN bit_downhill one river
wei-sa=na
 exist-PST[3SG]=NMLZ.SG
 ‘A bit downhill from their house there was a river.’ [01_leg_07.283]
- b. *hon=na yuktham=ga yo?yorok khe?kherek*
 that_very=NMLZ.SG place=GEN bit_further bit_closer
 ‘around that place/the surroundings of that place’ [01_leg_07.269]

7.5 Motion verbs

Several motion verbs have also lexicalized the uphill/downhill distinction, as shown in example (25) and in Table 7.6. Event specification with regard to the topography is highly frequent. Even though neutral forms are available (also included in the table), the pragmatically expected forms are those specifying the event for the *mo/to/yo* distinction. This specificity reaches well beyond ‘classical’ motion events; also small-scale motions like putting, repairing, stacking, looking, turning or calling are often precisely specified with respect to their spatial orientation, by means of complex predicates with different function verbs (see (25b) and Table 10.1 in Chapter 10). Motion away from a point of reference is not specified with respect to the topography, there are only the neutral verbs ‘go’ and ‘carry off’. This is unexpected pragmatically: in motion events towards a point of reference, the speaker and the hearer are usually identifiable, and with them, the direction of the movement. In motion events away from a point of reference, as in ‘go’ and ‘carry off’, the direction of the movement is less predictable, and therefore, it would be pragmatically more important to specify events of going with regard to the topography-based distinctions.

	COME	BRING
NEUTRAL	<i>ta</i> ‘come’ (from a greater distance)	<i>ta?</i> ‘bring’
NEUTRAL	<i>khe?</i> ‘go’	<i>khet</i> ‘carry off’
UP	<i>ke?</i> ‘come up’	<i>ket</i> ‘bring up’
ACROSS	<i>ap</i> ‘come’ (same level, small distance)	<i>apt</i> ‘bring’
DOWN	<i>uks ~ uŋ</i> ‘come down’	<i>ukt</i> ‘bring down’

Table 7.6: Geomorphic distinctions in motion verbs

- (25) a. *kancin to tub-i=hoŋ uks-a-ŋ-ci-ŋ=hoŋ*
 1PL up meet-1PL=SEQ come_down-PST-EXCL-DU-EXCL=SEQ
yo tas-a-ŋ-c-u-ŋ=ba
 across arrive-PST-EXCL-DU-3.P-EXCL=EMPH
 ‘Having met uphill (many people), we (two) came down (home) and arrived across (at a neighbour’s house on the same level as the speaker’s home).’ [36_cvs_06.395]
- b. *na eko=ŋa=go thend-u-get-uks-a=ba, nna,*
 this one=ERG=TOP lift-3.P-V2.BRING_UP-3.P-PRF-PST=EMPH that
om leks-a=nin̩a
 bright become-PST[3SG]=CTMP

‘One of them lifted it (the rock) and carried it up (holding in his hands, not carrying on his back), while the sun came out.’ [37_nrr_07.086]

These topography-specific verbs are only compatible with suitable adverbial expressions. For instance, *apma* ‘come over’ can only be used with *yondan* ‘from a location on the same altitude level’. Interestingly, this verb is also used when ‘coming over’ implies climbing down 800 meters, crossing a river and then climbing up on the other side again.

8 Verbal inflection

This chapter deals with the inflectional morphology of the Yakkha verb. Word formation on the verb level is treated in Chapter 10 on complex predicates, and in §11.3 on transitivity operations.

The verbs can be grouped according to their stem forms and alternations (treated in §8.1). Most verbal roots have a pre-vocalic and one or more pre-consonantal forms. There are lexical alternations and those that can be explained with morphophonological processes such as elision, voicing and assimilation.

Yakkha verbal inflection is highly polysynthetic and overwhelmingly suffixing; the verb can carry up to seven suffixes, while there is only one prefix slot. The finite verb is inflected for person and number of subject and object (treated in §8.2), polarity (§8.3), tense/aspect (§8.4) and mood (§8.5). Politeness or honorific distinctions are not grammaticalized in the Tumok dialect, except for the imperative, which has an additional politeness register. In the Dandagaun dialect, there is an honorific construction which is calqued upon the Nepali honorific verbal inflection (§8.6). The inflection of the copular verbs slightly deviates from the regular verbal inflection; it is treated in §8.7. Two further verbal markers that do not fit elsewhere are treated in §8.8. The finite verb stands in opposition to infinitives, converbs and nominalizations that are restricted to polarity and occasionally number inflection (treated in §8.9).

Table 8.1 shows an overview of the most important verbal affixes in the regular verbal paradigm, and Table 8.2 shows schematically how all markers are distributed over the inflectional slots. Except for some idiosyncrasies in the inflection of copulas there are no inflectional classes; all differences in inflectional behavior can be explained by morphophonology.

PERSON-NUMBER	
<i>-ŋ</i>	1
<i>-ka</i>	2
<i>-u</i>	3.P
<i>-nen</i>	1>2
<i>-i</i>	1/2 plural
<i>-ci</i>	dual or 3 nonsingular P
<i>N-</i>	3 plural S/A
<i>=na</i>	singular
<i>=ha</i>	nonsingular or non-countable
TENSE-ASPECT	
<i>-meʔ/-wa</i>	nonpast
<i>-a</i>	past
<i>-ma/-uks</i>	perfect
<i>-masa/-uksa</i>	past perfect
<i>-siʔ</i>	progressive
NEGATION	
<i>N-...-n</i>	
<i>-nin</i>	plural negation
MOOD	
<i>-a</i>	imperative/subjunctive
<i>-ni</i>	optative
INFINITIVE	
<i>-ma</i>	infinitive

Table 8.1: Overview of the major verbal inflectional markers

	PF	Σ	SF 1	2	3	4	5	6	7	8	9	10	11	12	13	14	(15)	(16)
PERSON MARKING	N-			-nen		-N	-ci ~ -cin		-u	-N	-ci	-m	-ka	-η(a)			(=na)	(=ci)
	3PL			1>2		(copy)	DUAL		3.P	(copy)	3NSG.P	1/2PL>3	2	EXCL			NMLZ.SG	NSG
							-i ~ -in										(=ha)	
							1/2PL										NMLZ.NSG	
NEGATION							-ni											
							2PL.IMP											
	N-					-N				-N					-n ~ -nin			
	NEG					(copy)				(copy)					NEG			
TAM																		
			-a	-ma ~ -mi	-sa ~ -si			-wa										-ni
	PST/		PRF		PST.PRF			NPST										OPT
	IMP/																	
	PST.SBJV																	
	-me?																	
	NPST																	
	-uks ~ -nun																	
	PRF																	

Table 8.2: Templatic schema of the verbal inflection

8.1 Stem formation

Yakkha verbal roots either have the simple shape (C)V(C), or a complex shape (C)V(C)-s or (C)V(C)-t, carrying one of the coronal augments -s and -t (~ -d ~ -r ~ -ʔ), which can be traced back to valency-increasing suffixes. Such augments can be found throughout Kiranti, but they also have cognates in e.g. Jinghpo, Written Tibetan, Magar, Chepang, some West Himalayaish languages and Qiangic languages (Matisoff 2003: 457ff.).¹

From a synchronic perspective, except for a handful of stems,² the distribution of the augments is not relatable to valency change, and hence they cannot be analyzed as synchronic grammatical suffixes. The augment -s surfaces only in inflected verb forms, and only before vowels and /w/ (see (1a)). The augment -t is also found before vowels and /w/ (see (1b)). When the pre-augmented root has CV structure, this augment may surface before other consonants as well, apparently having been re-analyzed as part of the stem (always as [ʔ] before C, compare (1c) with its citation form). Yakkha verbal stems never start with consonant clusters, which supports the analysis of complex onsets as originating in bisyllabic structures.

- (1) a. *khem-ma yas-u=na*
 hear-INF be_able-3.P[PST]=NMLZ.SG
 ‘He could hear it.’ (citation form: *yama*)
- b. *chimd-u=na*
 ask-3.P[PST]=NMLZ.SG
 ‘He asked her.’ (citation form: *chimma*)
- c. *thur-u=na*
 sew-3.P[PST]=NMLZ.SG
 ‘He sewed it.’ (citation form: *thuʔma*)

Yakkha verbs can formally be grouped into intransitively and transitively inflected verbs. Several verb pairs are homophonous, but they have different valencies, e.g. *hot* ‘cough’/‘pierce’, or *ap* ‘come’/‘shoot’. In §8.1.1, the different root types will be presented. Section 8.1.2 shows the morphophonological behavior of the stems (for a detailed account of the morphophonology see §3.5).

A few stems in Yakkha are not monosyllabic. Historically they were bimorphemic (with both noun-verb and verb-verb combinations), but their etymology is at most partially transparent. Examples are *ta-rokt* ‘start’ and *ya-rokt* ‘get to

¹The term (*stem*) *augment* is well established in the Kiranti descriptive tradition, so that I decided to stick with it in this work.

²See §11.3.8.

know, get informed’, both containing the stem *tokt* ‘get’ (its word-internal allomorph [rokt]). Other examples are *na-hend* ‘be jealous’, where *na* could be ‘nose’ (but *hend* is not attested as independent verb), *themd-(n)i* ‘compare’ and *hes-ca* ‘defeat’.³ From the structure of the morphemes it is clear that they are verbal stems historically, but an independent meaning could not be established.⁴

8.1.1 Stem types

8.1.1.1 Unaugmented roots

Unaugmented roots can have open ((C)V) or closed ((C)VC) structure, with CV? roots behaving exceptionally. Table 8.3 lists some verbs with unaugmented roots. Note that in most cases the stem surfaces as it is in the citation form (except for CVn stems, which change to CVm). This is not the case with augmented stems, discussed in the following section.

ROOT	CITATION FORM	GLOSS
<i>ca</i>	<i>cama</i>	‘eat’
<i>khi</i>	<i>khima</i>	‘quarrel’
<i>u</i>	<i>uma</i>	‘enter’
<i>a</i>	<i>ama</i>	‘descend’
<i>so?</i>	<i>so?ma</i>	‘look’
<i>hap</i>	<i>hapma</i>	‘cry’
<i>cok</i>	<i>cokma</i>	‘do’
<i>uŋ</i>	<i>uŋma</i>	‘drink’
<i>um</i>	<i>umma</i>	‘suck’
<i>cen</i>	<i>cemma</i>	‘chop, cut’

Table 8.3: Unaugmented roots (CV, CV?, CVC)

The consonants in the underlying forms of the roots may undergo voicing and regular assimilations when inflectional morphology attaches to them (discussed in §8.1.2). Verbs of the underlying structure /CV?/ behave exceptionally, since the root-final /ʔ/ gets deleted in the inflection, and the root vowels are less resistant to deletion, too. They may change into glides (/kheʔ-a/ becomes [khyə],

³The stems are written with dashes to indicate the former morpheme boundary, which is still transparent since in all verbs one component is still relatable to an existing morpheme.

⁴For transparent noun-verb predicates and verb-verb predicates see Chapters 9 and 10, respectively.

/piʔ-a/ becomes [pya]) or be deleted (/soʔ-wa/ becomes [swa]). Comparison with the closely related Chintang and Belhare languages shows that the Yakkha /CVʔ/ roots originate in *CVt historically. In Belhare, cognates to Yakkha /CVʔ/ roots have the form /CVr/ (Bickel 1997a); in Chintang, they have the form /CVd/ (CVd in Rai et al. (2011)).

When open roots are followed by a vowel in the verbal inflection, either a glide [y] is inserted or the vowel of the suffix gets deleted (for details see §3.5). The verb *cama* behaves exceptionally in showing ablaut (with the suppletive root [co]).

8.1.1.2 Augmented roots

The two coronal augments *-s* and *-t* (~ *-d* ~ *-r* ~ *-ʔ* in Yakkha) are typical of Kiranti stem structure. Historically, they had a transitivizing function (Sprigg 1985, Michailovsky 1985, van Driem 1989, Matisoff 2003, Bickel 2003, Bickel et al. 2007a), but synchronically they are not productive anymore, except for *-t*, which plays a role in the benefactive derivation.⁵ Synchronically, only a handful of verbs still show correspondences between augmentation and increased valency (cf. Table 11.2 in §11.3.8).⁶

Four groups of augmented roots have to be distinguished:

- (i) open roots with augment *-s*
- (ii) closed roots with augment *-s*, alternating between CVCs and CVN
- (iii) open roots with augment *-r* ~ *-ʔ* (**-t*)
- (iv) closed roots with augment *-t* ~ *-d*

The roots of group (i) have the structure /CV-s/ (see Table 8.4). The augment surfaces only before vowels and /w/, e.g. *nisuna* ‘he saw it’ and *niswana* ‘he will see it’.

Roots of group (ii) have the underlying structure /CVC-s/, and before consonants they have an alternant CVN, the nasal having the same place of articulation as the underlying consonant (see (2) and Table 8.5). While the deletion of the augment in group (i) above can be explained by phonology alone (no syllable

⁵The benefactive is formed by a complex predicate, with the augment *-t* attached to the lexical root, followed by the V2 *-piʔ* ‘give’, see §11.3.3.

⁶In van Driem (1994) and Gvozdanović (1987), the stem-final *-t* was analyzed as part of a past suffix (such a suffix indeed exists in some Western Kiranti languages). This was not confirmed by my data, and not even by the data in these sources (collected by Gvozdanović), since *-t* also appears in the nonpast paradigms there.

ROOT	CITATION FORM	GLOSS
<i>nis</i>	<i>nima</i>	‘see, know’
<i>yas</i>	<i>yama</i>	‘be able (to do)’
<i>cis</i>	<i>cima</i>	‘cool down’
<i>us</i>	<i>uma</i>	‘boil, be cooked’
<i>es</i>	<i>(hi) ema</i>	‘defecate’
<i>chus</i>	<i>chuma</i>	‘shrink’

Table 8.4: Augmented roots (CV-s)

boundaries of the shape [s.C] are allowed in Yakkha), the alternation in group (ii) between CVC and corresponding CVN is lexical, although it is triggered phonologically, too.

This group contains only two types of roots: those ending in /ks/ and those ending in /ps/. Stems ending in a nasal and the augment -s, as they are known in Chintang and Belhare, for example (Schikowski 2012, Bickel 1997a), do not occur in Yakkha.⁷

- (2) a. *a-cya* *ips-a-khy-a=na*
 1SG.POSS-child sleep-PST-V2.GO-PST[3]=NMLZ.SG
 ‘My child fell asleep.’
 b. *im-khuba*
 sleep-NMLZ
 ‘sleeper’

The roots of group (iii) have the structure /CV-r/, originating in *CV-t roots (cf. Table 8.6). In this group the augments have been reanalyzed as part of the root. They surface (as [ʔ]) before nasal and lateral consonants, the verb *hema* ‘dry up’ being an unmotivated exception (see (3a) and Table 8.6).⁸ Before obstruents, the augment /r/ does not surface, which is the expected behavior. The augment -r surfaces before vowels and /w/, in the first case resyllabified as onset of the first syllable of the suffix string (see (3b)). This group shows that roots with augmented -t and root-internal -t (cf. above) have undergone different developments historically, the first having become /CV-r/, and the second having become /CV-

⁷I could not detect regular correspondences between the CVNs stems found in Belhare, for instance, and any particular stem type in Yakkha: *həns* ‘send (things)’ corresponds to Yakkha *haks*, *homs* ‘swell’ corresponds to *homd*, and *hums* ‘bury’ corresponds to *hum* in Yakkha.

⁸This behavior stands in contrast to the other groups of roots, where augments never surface before consonants.

ROOT	CITATION FORM	GLOSS
<i>ips ~ im</i>	<i>imma</i>	‘sleep’
<i>tups ~ tum</i>	<i>tumma</i>	‘meet, find, get’
<i>ceps ~ cem</i>	<i>cemma</i>	‘recover, get well’
<i>sops ~ som</i>	<i>somma</i>	‘stroke’
<i>uks ~ uŋ</i>	<i>uŋma</i>	‘come down’
<i>paks ~ paŋ</i>	<i>paŋma</i>	‘send (people)’
<i>kaks ~ kaŋ</i>	<i>kaŋma</i>	‘accept, fall down’
<i>keks ~ keŋ</i>	<i>keŋma</i>	‘bear fruit, ripen’
<i>hiks ~ hiŋ</i>	<i>hiŋma</i>	‘turn around’

Table 8.5: Augmented roots (CVC-s ~ CVN)

ʔ/ in present-day Yakkha. Thus, an infinitive of the shape CVʔ-ma can have the underlying roots /CVt/, /CVʔ/ or /CV-r/.

- (3) a. *men-niʔ-le*
 NEG-count-CVB
 ‘without counting’
- b. *ikhiŋ ucun=ha tephen thur-uks-u=ha!*
 how_much nice=NMLZ.NC clothing sew-PRF-3.P[PST]=NMLZ.NC
 ‘He made such nice clothing!’

ROOT	CITATION FORM	GLOSS
<i>her ~ he</i>	<i>hema</i>	‘dry up’
<i>hor ~ hoʔ</i>	<i>hoʔma</i>	‘crumble, fall apart’
<i>nir ~ niʔ</i>	<i>niʔma</i>	‘count’
<i>por ~ poʔ</i>	<i>poʔma</i>	‘topple, fall, fell’
<i>pher ~ pheʔ</i>	<i>pheʔma</i>	‘open widely’
<i>thur ~ thuʔ</i>	<i>thuʔma</i>	‘sew’

Table 8.6: Augmented roots (CV-r)

The roots of group (iv) have the structure CVC-t ~ CVC-d, with either a plosive or a nasal preceding the augment (see Table 8.7). The augment, as expected, surfaces only before vowels and /w/, being resyllabified as onset of the first syllable of the suffix string (see (4)). Roots ending in /-nd/ are more prone to assimila-

tion processes than the other roots. They assimilate in place of articulation to the following material, as the infinitives and (4c) show.

- (4) a. *chim-nen?*
ask-1>2
'May I ask you?'
- b. *chimd-a-ŋ!*
ask-IMP-1SG.P
'Ask me!'
- c. *uŋ-khuba yapmi*
pull-NMLZ person
'the pulling man' (root: /und/)

ROOT	CITATION FORM	GLOSS
<i>ukt</i>	<i>ukma</i>	'bring down'
<i>tupt</i>	<i>tupma</i>	'light up'
<i>hokt</i>	<i>hokma</i>	'bark'
<i>cheŋd</i>	<i>cheŋma</i>	'stack, raise'
<i>und</i>	<i>umma</i>	'pull'
<i>hond</i>	<i>homma</i>	'fit into'
<i>chumd</i>	<i>chumma</i>	'shrink (clothes)'
<i>chimd</i>	<i>chimma</i>	'ask'
<i>homd</i>	<i>homma</i>	'swell'

Table 8.7: Augmented roots (CVC-t)

There is one exception among the CVC-t roots, and these are roots of the form /CVt/, originating in *CVt-t roots historically. The final /t/ of unaugmented /CVt/ roots got reduced to a glottal stop (see 8.1.1.1), and the augment got reanalyzed as part of the root, yielding a root of the shape CV?-t, which became CVt. In closely related languages like Chintang and Belhare, these roots show a geminate /t:/ (Bickel 1997a, Bickel et al. 2007a; 2010).⁹ Although in Yakkha synchronically there is only one consonant /t/, the roots still show reflexes of their historical complexity. For instance, they do not undergo voicing between vowels (see (5)). In the citation forms, these roots surface as CV?, like the CV? roots (*CVt) and the CVr roots (*CV-t). Table 8.8 shows Yakkha /CVt/ roots and their cognates in Chintang and Belhare.

⁹In Rai et al. (2011) these roots are listed as ending in /t:/ (<ṭṭ>).

- (5) a. *ka phat-a-ŋ!* (not: **phadaŋ*)
 1SG help-PST-1SG
 ‘Help me!’
- b. *ka mit-a-ŋ!* (not: **midan*)
 1SG remember-PST-1SG
 ‘Remember me!’

YAKKHA	GLOSS	CHINTANG	BELHARE
<i>khut</i>	‘bring to’	<i>khutt</i>	<i>khutt</i>
<i>khēt</i>	‘carry off’	<i>khatt</i>	<i>khatt</i>
<i>ket</i>	‘bring up’	<i>katt</i>	n.d.
<i>met</i>	‘CAUS’	<i>mett</i>	<i>mett</i>
<i>mit</i>	‘think of, remember’	<i>mitt</i>	<i>mitt</i>
<i>lit</i>	‘plant’	<i>lett</i>	n.d.
<i>phat</i>	‘help’	<i>phatt</i>	<i>phatt</i> (‘exchange’)

Table 8.8: Chintang and Belhare cognates of Yakkha CVt roots

The root types and their basic alternation patterns are schematically summarized in Table 8.9. In this table, “CV” should read “(C)V” in all instances. For assimilations see Table 8.10.

8.1.2 Morphophonological behavior of stems

The previous section has introduced the root alternations in their basic forms, grouped according to pre-vocalic and pre-consonantal behavior. Depending on which consonant or vowel follows the root, further processes such as assimilation, gliding and voicing may apply (see Table 8.10). Except for the alternation between CVC-s and CVN, and the somewhat exceptional behavior of CV? roots, all alternations can be ascribed to phonological processes.

The following processes can be noticed (cf. also §3.5): assimilation of root-final /n/, /p/ and /pt/ to a bilabial nasal (triggered by a bilabial nasal), assimilation of root-final /k/ and /kt/ to a velar nasal (also triggered by a bilabial nasal), intervocalic and postnasal voicing (e.g. in /cok/ and /ap/). CV roots with an augment (e.g. /pes/, /her/ and /thur/) show that the augment almost never surfaces before consonants. Root-final /t/ and /ʔ/ easily assimilate to the following consonant.

Not just the quality of the subsequent sound, also stress plays a role in determining the allomorphs. If one compares roots followed by either *-khuba* (a nomi-

	UNDERLYING FORM	BEFORE V/-wa	BEFORE C
UNAugmented ROOTS			
(a)	CV(C) CV? (<*CVt)	CV(C) CV	CV(C) CV(C)
Augmented ROOTS			
(b)	CV-s	CV-s	CV
(c)	CVC-s ~ (C)VN	CVC-s	CVN
(d)	CV-r	CV-r	CV (before obstr.) ~ CV? (before nas./liq.)
(e)	CVC-t CVt (<*(C)Vt-t)	CVC-t CVt	CVC CV? (before liq.) ~ CVC (elsewhere)

Table 8.9: Schema of the basic root allomorphy

nalizer, not stressed) or *-khe?* (a function verb, stressed in the citation forms), we can see that the stressed *-khe?ma* has greater phonological impact on the preceding verbal root, since all root-final consonants become nasals before *-khe?ma*. The forms in brackets represent unconditioned variations.

8.2 Person, number and syntactic role marking

Intricate person marking systems are the hallmark of Kiranti languages. Yakkha is a “well-behaved” Kiranti language; the verb exhibits a complex indexing system, where person (1, 2, 3 and clusivity for first person), number (singular, dual and plural, sometimes neutralized to nonsingular) and syntactic role marking interact. The system is simply referred to as *person marking* in the following for the sake of readability. The person marking is overwhelmingly suffixing; there is only one prefix slot, which is filled by a homorganic and non-syllabic nasal (see (6)). In transitive scenarios, generally both arguments are marked on the verb, and hence the verbal inflection provides a clue about the transitivity of the verb.¹⁰ Due to morphophonological processes such as vowel elision to avoid hiatus, some morphemes undergo changes or are rarely overtly realized. Example (6) also illustrates a further morphophonological process in Yakkha and many other Kiranti languages, known as *suffix copying* or *nasal copying* (Bickel 2003, Doornenbal 2009,

¹⁰ Although there are mismatches between semantic and morphological valency, see Chapter 11.

Σ	Σ - <i>khuba</i>	Σ - <i>khe?</i>	Σ - <i>me?</i>	Σ - <i>saŋ</i>	<i>meN</i> - Σ - <i>le</i>	Σ - <i>ci/-cu</i>	Σ - <i>wa</i>	Σ - <i>V</i>
<i>khe?</i>	khe(k)	-	khe(m)	khe	khe?	khe	-	khy (/ _a) khe (/ _i)
<i>so?</i>	so(k)	soŋ	so(m)	so(s)	so?	so	s	so
<i>cok</i>	cok	coŋ	coŋ	cok	jok	cok	cog	cog
<i>in</i>	in	iŋ	im	in	in	in	in	in
<i>ap</i>	ap	am	am	ap	ap	ap	ab	ab
<i>pes</i>	pe	peŋ	pe	pe	be	pe	pes	pes
<i>thur</i>	thu	thuŋ	thu	thu	thu?	thu	thur	thur
<i>her</i>	he	heŋ	he	he	he	he	her	her
<i>haks</i>	haŋ	haŋ	haŋ	haŋ	haŋ	haŋ	haks	haks
<i>hops</i>	hom	hom	hom	hom	hom	hom	hops	hops
<i>hakt</i>	hak	haŋ	haŋ	hak	hak	hak	hakt	hakt
<i>chimd</i>	chim	chim	chim	chim	chim	chim	chimd	chimd
<i>chept</i>	chep	chem	chem	chep	chep	chep	chept	chept
<i>mit</i>	mik	miŋ	mim	mis	mi?	mi?	mit	mit

Table 8.10: Examples of stem allomorphs, mostly phonologically conditioned

Ebert 2003c, Schikowski 2012). Nasal suffixes in Yakkha can be copied regressively and thus may appear up to three times in one suffix string (see §3.5.7.2).

- (6) *m-bi-me-n-c-u-n-ci-ŋa-n=na*
 NEG-give-NPST-[COPY]-DU-3.P-[COPY]-NSG.P-EXCL-NEG=NMLZ.SG
 ‘We (dual, exclusive) will not give it to them.’

The verbal inflection is the most complicated part of Yakkha morphology, not just because of the number of affixes, but also because there is no one-to-one mapping of form and function.¹¹ This asymmetry holds for both directions: one functional slot (i.e. the reference to one participant or one scenario) can be marked by a combination of affixes. Take for instance the first person plural exclusive, expressed by *-i*, *-ŋ* and optionally *=ha*). At the same time, many markers encode more than one category, for instance the just mentioned *-i*, which contains the information that the co-nominal of the marker is a first or second person plural subject of an intransitive verb or a second person plural object of a transitive verb. Some markers encode only one category, like *-ka* for ‘second person’ or *-ŋ* for ‘exclusive’. Other markers are homophonous, like *-ci*, encoding either dual

¹¹From a comparative Kiranti perspective, however, the Yakkha verbal inflection looks fairly simple and regular.

(any syntactic role) or nonsingular (only third person patients). These are two different markers, since they occupy separate slots in the suffix string. In a few other Kiranti languages, e.g. in Limbu, they have different shapes.¹² Ambiguities of affixes can in most cases be resolved via the morphological context in which the markers appear. Furthermore, a few person-number-role configurations have different markers depending on whether they are in the indicative, imperative or subjunctive mood.

Table 8.11 gives an overview of the person marking affixes in intransitive and transitive (indicative) inflection. Most affixes are restricted to certain syntactic roles. Some markers do not just encode the referential properties of one argument, but stand for whole scenarios, such as the portmanteau morphemes *-nen* marking first person acting on second, and *-m* marking first or second person plural acting on third person. A reference factor that shapes the person paradigm is for instance the dominance of second person in scenarios with third person acting on second (3>2). Two examples for the influence of role must be mentioned here, too: firstly, the dual is not distinguished as consistently in the object marking as it is in the subject marking (both transitive and intransitive) and secondly, the loss of first person nonsingular object marking historically (discussed below).

Thus, the paradigm of person marking does not exhibit one particular alignment type, but combinations of role-based (ergative, accusative, neutral) and reference-based or even scenario-based alignment, to be determined for each marker separately.¹³ In one scenario, two inflections were possible, namely 1PL.EXCL>2DU, where the suffix string *-nen-cin=ha* was regarded equally acceptable as *-nen-in=ha* by all speakers consulted.

Furthermore, the person inflection interacts with polarity, mood and tense/aspect markers, discussed further below. The cliticized markers *=na* and *=ha ~ =ya, ~ =a* are nominalizers. In a manner that is common in Sino-Tibetan languages, they are frequently attached to the inflected verb, lending authority to assertions, or emphasis to questions (see Chapter 13 for a detailed analysis). Since they also encode number and role information, they are included in the discussion of person marking.

¹²Limbu, for instance, has *-si/-chi* for dual and *-si* for nonsingular patient (van Driem 1987: 75ff).

¹³An alternative view would be to say that languages like Yakkha lack alignment altogether, following a definition of alignment as a property of a whole language instead of as a property of one construction or even one marker. However, the person forms do not appear randomly in the paradigm; one can discern certain groupings and patterns that are pretty consistent across the whole language family, and these would not be acknowledged by dubbing the language as 'lacking alignment' or 'lacking grammatical relations'.

The verbal morphology is templatic, with one prefix slot and eleven suffix slots for person and number, established according to the sequences in which the affixes occur relative to each other (see Figure 8.1). The longest suffix string found in the person inflection refers to the scenario 1DU.EXCL>3NSG and contains seven affixes, counting only the person suffixes (see (7a)); the shortest is third person singular (intransitive) and has only one optional slot, since third person singular subject indexing (both transitive and intransitive) does not have a dedicated marker (see (7b)).¹⁴

The schema includes the slots for the nasal copying (-N). Slots no. 1, 3, 6, 13 and 14 are reserved for negation and TAM-marking; Slot 2 may contain either a person marker or a TAM marker.

- (7) a. *tund-a-η-c-u-η-ci-η(=ha)*
understand-PST-N-DU-3.P-N-3NSG.P-EXCL=NMLZ.NSG
‘We (dual, excl.) understood them.’
b. *khy-a(=na)*
go-PST(=SG)
‘He went.’

2	4	5	7	8	9	10	11	12	(15)	(16)
<i>-nen</i>	<i>-N</i>	<i>-ci ~ -cin</i>	<i>-u</i>	<i>-N</i>	<i>-ci</i>	<i>-m</i>	<i>-η(a)</i>	<i>-ka</i>	<i>(=na)</i>	<i>(=ci)</i>
1>2	(copy)	DUAL	3.P	(copy)	3NSG.P	1/2PL>3	EXCL	2	NMLZ.SG	NSG
		<i>-i ~ -in</i>							<i>(=ha)</i>	
		1/2PL							NMLZ.NSG/	
									NMLZ.NC/	

Figure 8.1: Templatic schema of indicative person/number suffixes

In the following, proceeding from left to right, the individual affixes will be discussed. In general, the labels for the morphemes stand for a maximal extension, since it is often the case that a morpheme is not found in all the expected slots.

The prefix slot can only be occupied by an unspecified nasal, which either marks third person plural (in S and A roles) or negation (see §8.3). As it is unspecified with regard to the place of articulation, it assimilates to the place of the initial

¹⁴The parentheses signalling the optionality of these markers will not be written in the following, except for where their optionality is explicitly discussed. They are optional from a morphological perspective, but not from an information-structural perspective, since under certain conditions they have to occur.

consonant of the verb stem (see (8)). Before vowels and the glide /w/, it is realized as a velar nasal.

- (8) a. *ŋ-khy-a=ha=ci*
 3PL-go-PST=NMLZ.NSG=NSG
 ‘They went.’
 b. *m-bi-a-ga=na*
 3PL.A-give-PST-2=NMLZ.SG
 ‘They gave it to you.’
 c. *n-chimd-a-ga=na*
 3PL.A-ask-PST-2=NMLZ.SG
 ‘They asked you.’
 d. *n-yog-a-ga=na*
 3PL.A-search-PST-2=NMLZ.SG
 ‘They searched for you.’

In the transitive paradigm, the prefix is not found in all expected scenarios; more precisely it marks 3PL.A>2SG.P and 3PL.A>3.P. The only Kiranti language with a similar marker is Belhare, but there, the marker partly has NSG and 3>2 distribution (Bickel 2003: 551).¹⁵ The prefix domain is surprisingly compact in Yakkha, compared to most of the surrounding languages: Limbu has four prefixes (van Driem 1997), Belhare has five prefixes (Bickel 2003), Chintang has eight prefixes (Schikowski 2012) and Bantawa has six (Doornenbal 2009). In this respect, Yakkha resembles its northern neighbors Yamphu and Kulung (Rutgers 1998, Tolsma 1999) and many Western Kiranti languages (Jacques 2012: 93).

Among the suffixes, the first person marking slot (Slot 2) is occupied by the marker *-nen*, coding all and only those scenarios where first person acts on second (see (9)). A speaker from Hombong village consistently pronounced this marker as *-nan*, and also the Omruwa (Angbura) materials in van Driem (1994) and Gvozdanović (1987) show *-nan*, so that there may be some dialectal variation towards the western fringes of the Yakkha speaking area (the villages closer to the Arun river). This morpheme is unexpected from a comparative Kiranti perspective, since the cognate of this marker is generally *-na*, at least in Central and Eastern Kiranti. The most plausible explanation for the addition of /n/ is a preference for syllables

¹⁵Functionally similar markers in other Kiranti languages have been analyzed as inverse markers by Ebert (1991). In Yakkha, the distribution of this marker does not support such an analysis. According to this reasoning, inverse scenarios would be those with 3PL>2SG and 3PL>3, which would imply that 2DU and 2PL are lower-ranking arguments than 3SG. This is not confirmed by the alignment found in other constructions, where speech-act participants generally outrank third person participants in Yakkha.

being closed by nasals, as it is found elsewhere in the verbal inflection and in complex predication. This reasoning also explains why *-ci* and *-i* have the allomorphs *-cin* and *-in* in the 1>2 forms. Unfortunately, I have no explanation for why such a process is restricted to 1>2 scenarios, since open syllables are not completely ruled out in other inflectional forms.

- (9) a. *piʔ-nen=na*
 give[PST]-1>2=NMLZ.SG
 ‘I gave it to you.’
 b. *piʔ-nen-in=ha*
 give[PST]-PL=NMLZ.NSG
 ‘I gave it to you (plural).’ OR
 ‘We (dual) gave it to you (plural).’ OR
 ‘We (plural) gave it to you (singular/dual/plural).’

The functional distribution for scenarios of 1>2 is pan-Kiranti, although in some languages, e.g. in Thulung, *-na* is also found as a second person marker (Lahaussais 2002: 148). The change from /a/ to /e/ seems to be a Yakkha innovation; it is also found in other Yakkha lexemes and affixes. Compare for instance the Belhare negation marker *man-* with Yakkha *men-*, or Belhare/Chintang *khatt* (‘carry off’) with Yakkha *khet*.

Slot 4 is reserved for a nasal copy (glossed as [COPY] in this section), coming after the past marker *-a* or the nonpast marker *-meʔ* in Slot 3 (discussed below). This nasal copy is licensed by the dual marker *-ci*; it appears only when *-ci* is there too. In the affirmative paradigm this slot is only filled in the forms for 1DU.EXCL>3.P (see (10)). Although this marker never co-occurs with *-nen*, it is clear from its interaction with the tense marking that it does not occupy the same slot as *-nen*: the past marker *-a* occupies the same slot as *-nen*, and *-a* precedes the nasal copy.

- (10) a. *tund-a-ŋ-c-u-ŋ=na*
 understand-PST-[COPY]-DU-3.P-EXCL=NMLZ.SG
 ‘We (dual, excl.) understood him.’
 b. *tum-me-ŋ-c-u-ŋ=na*
 understand-NPST-[COPY]-DU-3.P-EXCL=NMLZ.SG
 ‘We (dual, excl.) understand him.’

Slot 5 is occupied either by *-i* ~ *-in* (coding 1/2PL.S and 2.P) or by *-ci* ~ *-cin* ~ *-c* (coding dual) in the indicative, and by a second person plural suffix *-ni* in the imperative (see §8.5). The suffix *-i* ~ *-in* will be examined first. Intransitive examples can be found in (11). The ambiguity of the marker is resolved by the addition of

further morphological material: *-ŋ(a)* for exclusive and *-ka* for second person. If no further material is added, the forms have an inclusive reading (see (11c)).

- (11) a. *khe-i-g=ha*
go[PST]-2PL-2=NMLZ.NSG
'You went.' 'You went.'
- b. *khe-i-ŋ=ha*
go[PST]-1PL-EXCL=NMLZ.NSG
'We (excl) went.'
- c. *khe-i=ha*
go[PST]-1PL=NMLZ.NSG
'We (incl) went.'

In transitive verbs, the distribution of this marker is conditioned by the respective participant scenarios, i.e. by the referential properties of both argument and co-argument. In scenarios with third person acting on second, the alignment is role-based; *-i* clearly marks second person plural patients. In scenarios with first person agents however, the marker (its allomorph *-in*) appears as soon as one participant has plural number (cf. Table 8.11 and example (9b)). Thus, its alignment in 1>2 scenarios is reference-based (number-based, to be precise), since the marker occurs regardless of which participant has plural number.

The dual marker *-ci* ~ *-cin* also has a very peculiar distribution. It marks dual subjects of intransitive verbs, and in transitive verbs its distribution depends on the person of the patient. It does not occur with first person patients, as this category got neutralized to zero marking (evidence for the former presence of first person patient marking is presented below). In the 1>2 paradigm cells it behaves analogously to *-in*: as soon as one argument has dual number (and no argument has plural number), *-cin* occurs (see (12)).

In the 3>2 paradigm cells, *-ci* is aligned with the patient. In all cells with third person patients, it is aligned with the agent, since the dual distinction is not made for third person patients. To sum up, this marker indexes all intransitive dual arguments, second person dual patients and agents, and transitive dual agents of all persons when the patient is a third person. Thus, one arrives at a combination of accusative (third person), neutral (second person) and reference-based (number-based, in 1>2 scenarios) alignment for the dual marker. When *-ci* is followed by the suffix *-u*, its vowel is omitted, yielding the fused form [cu].

- (12) *chim-meʔ-nen-cin=ha*
ask-NPST-1>2-DU=NMLZ.NSG

‘I will ask you (dual).’ OR
 ‘We (dual) will ask you (sing., dual).’

Historically, the two suffixes *-i* and *-ci* used to mark first person patients too, but the forms for first person nonsingular patients got lost, probably due to a face-preserving strategy equating first person patients with vague/indefinite reference (cf. §11.3.1.3). Luckily, the old forms are preserved in Gvozdanović (1987) (re-arranged and provided with an alternative analysis in van Driem (1994)). Table 8.12 contrasts the contemporary forms from the Tumok dialect with those recorded by Gvozdanović in 1984 with a male speaker of 51 years age from Omruwa (Angbura) village. The orthography used in this source was slightly adjusted here; <ng> was replaced by <ŋ>. In the original sources, the data contain tense markers, which are omitted here for better comparison.

OMRUWA DATA (1984)					
A>P	1SG.P	1DU.EXCL.P	1PL.EXCL.P	1DU.INCL.P	1PL.INCL.P
2SG.A	-ŋgana	-gaha	-gaha	-	-
2DU.A	-ŋciŋaha	-ŋciŋaha	-gaha	-	-
2PL.A	-ŋiŋana	-gaha	-gaha	-	-
3SG.A	-ŋna	-ŋciŋaha	-ŋciŋaha	-ciha	-ha
3DU.A	-ŋna	-ciha	-ha	-ciha	-ha
3PL.A	N- ŋna	-ciha	-ha	-ciha	-ha

TUMOK DATA (2012)					
A>P	1SG.P	1DU.EXCL.P	1PL.EXCL.P	1DU.INCL.P	1PL.INCL.P
2SG.A	-ŋgana	-gaha	-gaha	-	-
2DU.A	-gaha	-gaha	-gaha	-	-
2PL.A	-gaha	-gaha	-gaha	-	-
3SG.A	-ŋna	-ha	-ha	-ha	-ha
3DU.A	-ha	-ha	-ha	-ha	-ha
3PL.A	-ha	-ha	-ha	-ha	-ha

Table 8.12: Comparison of old and new first person patient forms

The 1984 data are puzzling, which can partly be ascribed to inconsistent orthography. In the forms with second person agents for instance, one would expect the second person marker *-ga* to show up. This can probably be attributed to a writing inconsistency (writing <ng> instead of <ngg>) or a hearing mistake. The form

-ŋciŋaha in 3SG acting on 1PL.EXCL is unexpected, too, and cannot be explained. The nasal prefix coding 3PL.A had a greater distribution than nowadays, since it is found in the paradigm cell for 3PL acting on 1SG, too. Even though the 1984 data are rather sketchy and apparently not completely reliable, they show that first person patients were marked more elaborately on the verb once than they are now. The dual number marker *-ci*, for instance, is found in almost all cells with first person dual patients.

Slot 7 is filled by *-u*, marking third person patients. When it follows the dual marker, both suffixes fuse into [cu], due to a strategy to avoid vowel hiatus. The suffix *-u* does not only cause vowel elision, it may itself be deleted, e.g. in the underlying sequence /-wa-u-m/, which is realized [wam] (see (13a)).

Slot 8 is filled by another nasal copy, which can be filled by *-ŋ* (see (13b)), *-m* (see (13c)) or *-n* (a negation marker).

- (13) a. *pi-wa-m=na*
give-NPST[3.P]-1PL.A=NMLZ.SG
'We (pl., incl.) give it to him.'
- b. *tund-a-ŋ-c-u-ŋ-ci-ŋ=ha*
understand-PST-[COPY]-DU-3.P-[COPY]-3NSG.P-EXCL=NMLZ.NSG
'We (dual, excl.) understood them.'
- c. *tund-u-m-ci-m=ha*
understand[PST]-3.P-[COPY]-3NSG.P-1PL.A=NMLZ.NSG
'We (pl., incl.) understood them.'

Slot 9 is filled by the marker *-ci* for third person nonsingular patients (see examples (13b) and (13c)). As mentioned above, third person patient marking does not distinguish dual and plural number. This marker is optional; it is omitted when the patient is low on the referential hierarchy, e.g. when it is inanimate (see (14a)) or when it has rather vague reference (see (14b)).

- (14) a. *kho-het-u*, [...] *saikal=be*
steal-V2.CARRY.OFF-3.P[PST] [...] bicycle=LOC
thend-het-u, [...], *phopt-haks-u*
lift-V2.CARRY.OFF-3.P[PST] [...] spill-V2.SEND-3P[PST]
'He stole them (the pears) [...] he lifted them onto the bike, [...] he spilled them [...]' [23_pea_03.019-028]
- b. *yakpuca yog-a-ma-c-u*, *phusa*
porcupine search-PST-PRF-DU.A-3.P, pangolin
yog-a-ma-c-u
search-PST-PRF-DU.A-3.P

‘They (dual) looked for porcupines, they looked for pangolins.’ (context: They did not hunt any.)

[22_nrr_05.015]

Slot 10 is filled by *-m*, coding first and second person plural agents acting on third person (also illustrated by (13a) and (13c)). Like the suffix *-nen*, it marks a whole scenario, not just the features of one participant. The suffix *-m* can be copied regressively, but maximally once, since the suffix combinations preceding *-m* never open up two copy slots.

The exclusive *-ŋ ~ -ŋa* in Slot 11 strictly speaking codes the non-inclusive, because also first person singular is marked by this suffix. Although it is morphologically the marked form, semantically it is the unmarked form, defined by the exclusion of the addressee or some other person saliently present in the utterance context.¹⁶ The morpheme is glossed ‘1SG’ in singular and ‘EXCL’ in nonsingular forms (see (15)). The allomorph *-ŋa* is found in the first person singular subjunctive, e.g. *kheŋa* ‘I would go’, *aŋa* ‘I would come’. It is also found when the exclusive marker is followed by the negation marker *-n*. As for its distribution across the paradigm, it is found marking intransitive and transitive subjects. In the first person patient forms it got lost, except for scenarios with 1SG.P and an agent that has singular number (see also Table 8.12). As we have already seen, the exclusive suffix can be copied regressively (maximally twice). The inclusive/exclusive distinction present in the verbal inflection got lost in the personal pronouns, but it is maintained in the possessive pronouns and in the possessive inflection (see §4.2).

- (15) a. *chimd-wa-ŋ=na*
ask-NPST-1SG=NMLZ.SG
‘I will ask him.’
b. *chim-me-ŋ-c-u-ŋ-ci-ŋ=ha*
ask-NPST-[COPY]-DU-3.P-[COPY]-3NSG.P-EXCL=NMLZ.NSG
‘We (dual, excl.) will ask them.’

The marker *-ka* ([ga] before vowels and [g(a)] before *=ha*) for second person fills Slot 12, illustrated by (16). It is unrestricted with regard to syntactic role, it appears in all paradigm cells with second person, except for 1>2, since there, the

¹⁶In other Kiranti languages, the inclusive forms are the functionally unmarked choice, since they are also used with generic reference. In Yakkha, first person forms are rarely used in this way; rather, the opposite development took place: a strategy to express generic reference (syntactically a detransitivization) became the standard way to indicate first person nonsingular patients, and the same is optionally possible with agents, too, see §11.3.1.

portmanteau suffix *-nen* applies. Example (16b) shows that it is not in the same slot as *-ŋ(a)*.

- (16) a. *chim-me-c-u-ci-g=ha*
 ask-NPST-DU-3.P-3NSG.P-2=NMLZ.NSG
 ‘You (dual) will ask them.’
 b. *chim-me-ŋ-ga=na*
 ask-NPST-1SG-2.A=NMLZ.SG
 ‘You will ask me.’

Slots number 13 and 14 are reserved for mood and negation suffixes.

Finally, in slots 15 and 16 we find two clitics, but since they encode person as well, they are included in the discussion here. Both are optional morphologically, but certain discourse contexts require them (discussed in §13.3.3 for *=na* and *=ha*, and in §11.3.1.2 for *=ci*). The clitics *=na* and *=ha* originate in a nominalization of independent main clauses, but they also code number, partly ergatively (matching with the number of S and P), partly following reference-based alignment, with nonsingular outranking singular (see Table 8.11 on page 214 for their exact distribution).

The marker *=ci* is found occasionally on intransitive verbs with 3PL subjects. Its occurrence depends on the occurrence of *=ha*, and since this is a nominalized structure, *=ci* can be identified as the nominal nonsingular marker. It is optional, and only found when its co-nominal is salient in discourse or referentially high. The exact conditions have yet to be determined, though. The main, non-optional marker for 3PL subjects is the nasal prefix discussed in the beginning of this section. Example (17) contrasts forms with and without *=ci*.

- (17) a. *pheri sum-baŋ n-leks-a=ha=ci*
 again three-CLF.HUM 3PL-become-PST=NMLZ.NSG=NSG
 ‘They became three again.’ [19_pea_01.048]
 b. *limbu=ci nhaŋ n-las-a-khy-a-ma*
 Limbu_person=NSG and_then 3PL-return-PST-V2.GO-PST-PRF
 ‘The Limbus went back afterwards.’ (The story is not about the Limbus, they are referred to as a group, no particular individual is singled out.)
 [22_nrr_05.040]

In the person marking of Yakkha, both reference and role condition the distributions and functions of the markers. Speech act participant arguments are treated differently from third person arguments. For instance, several markers refer to the category speech-act participant as a whole, e.g. *-nen*, *-m* and *-i*. Number is another

referential factor; as we have seen for *-i* and *-ci*, number is more salient than role in several scenarios. Role, in particular the patient role, is important as a condition for alignment splits. Reference-based systems and/or inverse marking are not unknown in Kiranti and other Tibeto-Burman languages (see e.g. Ebert (1991) for Belhare and Athpare, LaPolla (2007) for Rawang). Although reference is an important factor in Yakkha too, any attempt to generate one referential hierarchy from these intertwined conditions must fail, and none of the Yakkha person markers should be analyzed as an inverse marker. Figure 8.2 summarizes the alignment of the single markers. The single tables are organized like paradigms, with all possible participant scenarios. To take an example, the cell combined of 1A and 3P stands for scenarios where a first person agent acts on a third person patient. The shaded cells show which scenarios are marked by a particular marker. The last column (labelled S) stands for intransitive person marking. The crossed-out cells represent reflexive or partly reflexive scenarios, which cannot be expressed by the verbal person marking alone.

Two final notes are in order. Firstly, the third person singular (S and A arguments) marking is zero, in parallel to other Kiranti languages, and also in line with universal expectations. Secondly, partial coreferentiality, e.g. propositions like ‘you saved us (incl)’ or ‘I saw us (in the mirror)’ cannot be expressed by the Yakkha person inflection.¹⁷ Complete coreferentiality can be expressed by the reflexive construction (see §11.3.4).

8.3 Polarity

There are two sets of negation markers, one for nonfinite forms like converbs, participant nominalizations and infinitives, and one for finite inflected verbs. The first set is instantiated by the prefix *men-*.

In finite verbs, negation is marked by an underspecified nasal prefix and a suffix (*N...-n*). In forms with 3PL.A and with 1PL.INCL.A, *-n* has the allomorph *-nin*.¹⁸ By means of nasal copying *-n* can occur up to three times in one inflected form (see (18a)). Comparing this form to (18b), one can see that *-n* has replaced *-ŋ* in the copy slots; now it is the negation suffix that is copied. There is a hierarchy for the choice of which suffix to copy, consistently followed throughout the paradigms: *-m* > *-n* > *-ŋ* (see also §3.5.8).

¹⁷Jacques (2012) notes the same for Rgyalrongic languages.

¹⁸This allomorph has a slightly larger distribution in the inflection of the copulas, see §8.7.

	1P	2P	3P	S
1A				
2A				
3A				

-ka '2' (neutral, except 1>2)

	1P	2P	3P	S
1A				
2A				
3A				

-η(a) 'excl, 1sg' (neutral, except 1>2)

	1P	2P	3P	S
1A				
2A				
3A				

-i '1/2pl.S' & '2P' (ergative for 2, except 1>2)

	1P	2P	3P	S
1A				
2A				
3A				

Historical forms (recent loss of 1nsg.P forms): -i '1/2pl.S/P' (ergative)

	1P	2P	3P	S
1A				
2A				
3A				

-u '3P', -ci '3nsg.P' (accusative)

	1P	2P	3P	S
1A				
2A				
3A				

N- '3pl.S/A', zero '3sg.S/A' (accusative)

	1P	2P	3P	S
1A				
2A				
3A				

-m '1/2pl>3' (scenario-portmanteau)

	1P	2P	3P	S
1A				
2A				
3A				

-nen '1>2' (scenario-portmanteau)

	1P	2P	3P	S
1A				
2A				
3A				

-ci 'dual' (mixed: acc./neutral/ref.-based)

	1P	2P	3P	S
1A				
2A				
3A				

=na 'sg'; =ha 'nsg' (mixed: erg./ref.-based)

Figure 8.2: The alignment of individual person/number markers

- (18) a. *n-chim-me-n-cu-n-ci-ŋa-n=ha*
 NEG-ask-NPST-[COPY]-DU-3.P-[COPY]-3NSG.P-EXCL-NEG=NMLZ.NSG
 ‘We (dual, excl.) will not ask them.’
- b. *chim-me-ŋ-c-u-ŋ-ci-ŋ=ha*
 ask-NPST-[COPY]-DU-3.P-N-3NSG.P-EXCL=NMLZ.NSG
 ‘We (dual, excl.) will ask them.’

The unspecified nasal prefix assimilates in place to the first consonant of the verbal stem, as has already been shown above for the nasal prefix coding third person plural subjects. For some forms, especially in the forms for first person acting on second, it is the only negation marking device (see (19)). Among related languages, only Belhare has this unspecified nasal prefix, too (Bickel 2003: 554).

- (19) a. *chim-meʔ-nen=na*
 ask-NPST-1>2=NMLZ.SG
 ‘I will ask you.’
- b. *n-chim-meʔ-nen=na*
 NEG-ask-NPST-1>2=NMLZ.SG
 ‘I will not ask you.’

Examples of the suffix *-nin* are provided in (20). As a comparison between (20a) and (20b) shows, it may trigger the nasal copying too, if no higher ranking nasal suffix is available.

In the forms with third person plural agents, the homophony between *N-* marking person and *N-* marking negation makes this prefix ambiguous in these particular forms. Functionally it would make sense to say that the task of *-nin* is to disambiguate between affirmative and negative in those forms. But for the forms coding 1PL>3 this explanation does not make sense.

- (20) a. *n-chimd-wa-m-ci-m-nin=ha*
 NEG-ask-NPST-[COPY]-3NSG.P-1PL.A-NEG=NMLZ.NSG
 ‘We (incl.) will not ask them.’
- b. *n-chimd-wa-n-ci-nin=ha*
 NEG/3PL.A-ask-NPST-[COPY]-3NSG.P-NEG=NMLZ.NSG
 ‘They will not ask them.’

Paradigm tables can be found on page 239ff., with the upper forms showing the affirmative and the lower forms showing the negative inflections.

8.4 Tense and aspect marking

The inflected verb is marked for tense in both the indicative and the subjunctive mood. Tensed forms stand in opposition to the non-tensed imperative mood. This section only treats tense and aspect in the indicative mood, where tense also shows more elaborate distinctions. The subjunctive is treated below in §8.5.

The basic distinction in tense marking is between nonpast and past tense, partly cross-cut by aspectual distinctions (progressive and continuative aspect, both expressed periphrastically). As predicates with inceptive semantics are quite widespread in Yakkha (as in Belhare, cf. Bickel 1996), past inflections often have a ‘present’ interpretation, referring to the inception of a state or event, e.g. *tugama* (hurt.PRF[3SG]) ‘it started to hurt/it hurts’. Another consequence of this is that nonpast marking often gets a future or a general interpretation (i.e. not referring to a particular event, as in the nonpast *tunme?na* ‘it will hurt/it generally hurts’).

An overview of the tense/aspect distinctions and their markers is provided in Table 8.13. The relative simplicity of this overview is misleading, though, since further aspectual/Aktionsart distinctions, such as specifications for telicity and irreversibility, are indicated by complex predication, treated in Chapter 10. The tense/aspect analysis and labels presented here have to be understood as tentative, since no in-depth analysis of the lexical semantics of the verbs has been undertaken yet.

8.4.1 The Nonpast

Yakkha overtly marks the nonpast in the indicative but not in the subjunctive. The nonpast is indicated by the two suppletive markers *-me?* and *-wa*, occurring in different slots of the verbal inflection. While *-me?* comes immediately after the stem and before the person marking (Slot 1), *-wa* follows the suffix *-i* ‘1/2pl’ (Slot 6).

Historically, both markers are function verbs that got further grammaticalized to tense markers. They are different from function verbs in not triggering the double inflection that is found in complex predication, and also in not showing up in the citation forms, as function verbs generally do. The lexical verb *wama* ‘sit, stay, live’ still exists in Yakkha, but *me?ma* only exists with the stem *met* and the meaning ‘put around the waist’. In Belhare and Bantawa, though, cognates with the meaning ‘make, do, apply, cause’ can be found (Bickel 1997a, Doornenbal 2009). The Yakkha causative marker *-met* is also cognate to the nonpast marker, and in analogy to the stems and augments treated in §8.1 above, *me?* originates

NONPAST	PAST
NONPAST	SIMPLE PAST
- <i>meʔ</i> / - <i>wa</i>	- <i>a</i>
	PERFECT
	- <i>ama</i> ~ - <i>imi</i> / - <i>uks</i>
	PAST PERFECT
	- <i>amasa</i> ~ - <i>imisi</i> / - <i>uksa</i>
PROGRESSIVE	PROGRESSIVE
INF + AUX. <i>siʔ</i> .NPST	INF + AUX. <i>siʔ</i> .PST
CONTINUATIVE	CONTINUATIVE
SIM.CVB + AUX. <i>kheʔ</i> .NPST	SIM.CVB + AUX. <i>kheʔ</i> .PST

Table 8.13: Tense and aspect inflection

in an unaugmented stem and *met* is the corresponding augmented stem. The final /ʔ/ is often omitted (the omission being triggered by the following material), but it still has an impact on the following material: if *-ka* follows *-meʔ*, it does not get voiced, for instance. The sequence becomes [mekə], not [mega], because in the underlying structure more than one consonant stands between the vowels.

The distribution of these two allomorphs is not random, but grammatically conditioned (see Table 8.14). In the intransitive paradigm, mostly *-meʔ* is found, except for first and second person plural, which take *-wa*. The picture is slightly more complex in the transitive paradigm. Again, the more common allomorph is *-meʔ*, but *-wa* occurs in the forms of third person acting on second person plural ('3>2pl'), and in the forms with a non-dual agent and a third person patient. Thus, the distribution of the markers can be seen as a secondary device to mark different scenario classes, albeit not according to a particular referential hierarchy. Example paradigms can be found on page 239ff.

As for the development of this system, I can only speculate, but it is worth mentioning that in Yakkha complex predication, some function verbs (V2s) are employed to specify the transitivity features of a verb. It is possible that the historical V2 stems *-meʔ* and *-wa* were also distributed according to transitivity fea-

	INTRANSITIVE	TRANSITIVE			
		1	2	2PL	3
1SG	-me?		-me?		-wa
1DU					-me?
1PL	-wa				-wa
2SG	-me?	-me?			
2DU					-me?
2PL	-wa				-wa
3SG		-me?		-wa	
3DU	-me?				-me?
3PL					-wa

Table 8.14: Distribution of nonpast allomorphs

tures, and that via this stage their distribution was re-arranged so that they became markers of participant scenarios.

Let us now turn to the functional distribution of the category nonpast. As mentioned above, verbs marked by the nonpast often acquire a future reading (see (21)). Furthermore, the nonpast is found in general statements and in procedural texts, i.e. when the speaker does not have a particular temporal reference in mind (see (22)).

- (21) a. *sombar=ŋa ta-me?=na*
Monday=INS come[3SG]-NPST=NMLZ.SG
‘He will come on Monday.’
- b. *wandik=ŋa nam phem-me?=na*
next_day=INS sun shine[3SG]-NPST=NMLZ.SG
‘Tomorrow the sun will shine.’
- (22) a. *nhanto, garo n-chenɔd-et-wa=na,*
afterwards terrace 3PL.A-build-V2.CARRY.OFF-NPST=NMLZ.SG
tokha?la
upwards
‘And then they build the terrace, upwards.’¹⁹ [31_mat_01.093]

¹⁹The example is from a description of the construction of houses, referring to the stabilization of terraced fields around the house by means of field stones.

- b. *panca=ci, bhaladmi=ci*
 an_official_rank=NSG respected_elder=NSG
n-yuks-wa-ci=hon ce?ya n-jekt-wa,
 3PL.A-put-NPST-3NSG.P=SEQ matter 3PL.A-talk-NPST
 ‘They summon the officials and respected men, and they discuss the
 matter.’ (a marriage description) [25_tra_01.008]

The nonpast is also possible in adverbial clauses, such as sequential (22b), cotemporal or conditional clauses, if the proposition is true or likely to become true (cf. Chapter 14).

8.4.2 The Past Tenses

The past tenses stand in complementary distribution to each other (and to the nonpast). Yakkha has the Simple Past, the Perfect, and the Past Perfect. Morphologically, the Perfect is a specification of the Simple Past, and the Past Perfect is a specification of the Perfect, since in each form, some morphological material is added (see Table 8.13).

8.4.2.1 The Simple Past

The simple past is marked by *-a*, in the same slot as *-nen*, since the two never co-occur (see (23)). The suffix is homophonous with the imperative and the Past Subjunctive (see §8.5), but ambiguities are resolved by context and partly by alternative person or negation marking suffixes in the non-indicative moods.

- (23) a. *py-a-ga=na*
 give[3.A]-PST-2.P=NMLZ.SG
 ‘He gave it to you.’
 b. *pi-me?-ka=na*
 give[3.A]-PST-2.P=NMLZ.SG
 ‘He gives it to you.’

As for the morphophonology of this marker, after vowels it may cause the insertion of glides, as in *uyana* /u-a=na/ ‘he entered’, or *tayana* /ta-a=na/ ‘he came’. In CV? stems, it causes the elision of /?/, and the stem vowels /i/ and /e/ become [y], resulting in forms like *khyana* /khe?-a=na/ ‘he went’ (see also (23a)). When *-a* precedes the third person patient marker *-u*, the former gets deleted (see (24a)). The same happens when *-a* precedes *-i*, as in (24b). If such sequences occur after an open stem or a CV? stem, both suffixes are deleted (see (24c) and (e)). Another

pair illustrating these processes is shown in (25). In (a) both suffixes undergo elision; in (b), since only two vowels are adjacent, a glide is inserted.²⁰ Interestingly, the underlying sequence /iʔ-a-i-/ is realized [iʔi], a sequence that is not found elsewhere in the language (cf. paradigm of *piʔma* ‘give’ on page 242). For more on morphophonology see §3.5. Paradigms of past inflections are provided on page 241ff.

- (24) a. *chimd-u-ŋ=na*
 /chimd-a-u-ŋ=na/
 ask-PST-3.P-1SG.A=NMLZ.SG
 ‘I asked him.’
- b. *khe-i=ha*
 /kheʔ-a-i=ha/
 go-PST-1PL=NMLZ.NSG
 ‘We (incl.) went.’
- c. *ta-ŋ=na*
 /taʔ-a-u-ŋ=na/
 bring-PST-3.P-1SG.A=NMLZ.SG
 ‘I brought him.’
- d. *pi-ga=na*
 /piʔ-a-u-ga=na/
 give-PST-3.P-2.A=NMLZ.SG
 ‘You gave it to him.’
- (25) a. *ca-m=na*
 /ca-a-u-m=na/
 eat-PST-3.P-1PL.A=NMLZ.SG
 ‘We (plural) ate it.’
- b. *ca-ya-c-u=na*
 /ca-a-c-u=na/
 eat-PST-DU-3.P=NMLZ.SG
 ‘We (dual) ate it.’

The simple past refers to past events that are not specified further, for instance in truth value questions, such as in inquiries about whether a certain event happened or not, illustrated by (26).

²⁰In Puma, a Kiranti language of the Southern Central branch, a similar vowel elision in the suffix string results in vowel lengthening and low tone (Bickel et al. 2006). For Yakkha, this could not be detected.

- (26) a. *cek-met-u-m-ci-m-ga=m*,
 speak-CAUS-3.P-N-3NSG.P-2PL.A-2=ALT
n-jek-met-u-m-ci-m-ga-n=ha=m?
 NEG-speak-CAUS-3.P-N-3NSG.P-2PL.A-2-NEG=NMLZ.NSG=ALT
 ‘Did you make them speak or did you not?’ (talking about prospective bride and groom) [36_cvs_06.323]
- b. *khokt-a-ga=na?*
 chop_off-PST-2.P=NMLZ.SG
 ‘Does it taste pungent?’ [36_cvs_06.011]

As mentioned above, many verbs in Yakkha (and generally in Kiranti, Ebert (2003c: 512)) have ingressive-phasal Aktionsart, emphasizing the inception of the event, so that past inflection refers to the ongoing state or activity, e.g. in (26b). A common expression is shown in (27a), also rendered as ‘it’s done’ (Nep. *bhayo*), the past suffix being hardly audible in fast speech. Another example of the numerous verbs with such a temporal profile is shown in (27b).

- (27) a. *leks-a=ha* [leksha]
 become[3SG]-PST=NMLZ.NC
 ‘That’s it.’
- b. *o-pomma=ci* *ŋ-gy-a=ha=ci* [ŋghyaci]
 3SG.POSS-laziness=NSG 3PL-come_up-PST=NMLZ.NSG=NSG
 ‘He feels lazy.’

Habitual past statements can also be made using the simple past (28). There is no dedicated marker or construction for habitual aspect in Yakkha.

- (28) *encho, a-ppa wa-ya=ninja*
 long_ago 1SG.POSS-father exist[3]-PST=CTMP
lit-u-m-ŋa=ba
 plant[PST]-3.P-1PL.A-EXCL=EMPH
 ‘Long ago, when my father was still alive, we used to plant it.’
 [36_cvs_06.086]

In (29), the simple past refers to iterative events of reaching various places, which is conveyed by the duplicated question word.

- (29) *didi, ŋkhon he?ne he?ne tas-u-ga=na la?lo?*
 sister, afterwards where where reach[PST]-3.P-2.A=NMLZ.SG CTR.EXCLA
 ‘Sister, where have you been?/Sister, which places did you reach?’
 [36_cvs_06.183]

The simple past indicative cannot be distinguished from the past subjunctive in most person configurations, and thus, it is often not clear whether adverbial clauses are in the indicative or in the subjunctive, for instance in (28). However, since other tenses like the present, the perfect and past perfect (discussed below) are also possible in certain adverbial clauses, I assume that the simple past is possible as well.

Based on the past forms, two more tenses can be constructed, namely the Perfect and the Past Perfect, discussed in the following sections.

8.4.2.2 The Perfect

Roughly, the Perfect tense, with the allomorphs *-ma* and *-uks*, marks events for the past, but with continuing relevance for the time of the utterance, again with interpretations depending on the internal temporal structure of the verbs. In (30a) the verb has a telic structure, so that the perfect expresses the successful accomplishment, while in (30b) and (30c) the verbs have ingressive-phasal semantics, so that the perfect expresses an ongoing state. In (30c), the function verb ‘give’ adds a semantic shade of completeness, translatable as ‘already’, sometimes also as ‘certainly, inevitably’.

- (30) a. *nhaŋ ca-ma, i=ʔlo, lop*
 and_then eat-INF[DEONT] what=EXCLA now
whaŋd-uks-u-ŋ-ci-ŋ
 boil-PRF-3.P-N-3NSG.P-1SG.A
 ‘And we have to eat them, I have just boiled them.’ [36_cvs_06.037]
- b. *lop sak=ŋa n-sy-ama-ŋa-n=na*
 now hunger=INS NEG-die-PRF-1SG-NEG=NMLZ.SG
 ‘I am not hungry now.’ (‘I did not get hungry.’)
- c. *u-laŋ=be yeb-a-by-ama=na*
 3SG.POSS-foot=LOC stand[3SG]-PST-V2.GIVE-PRF=NMLZ.SG
 ‘She already stands on her own feet./She became independent already.’

A typical constraint on the perfect crosslinguistically is that this tense marking is not compatible with specifying events in the past (see (Bickel 1996: 176) for the same point on Belhare). In (31), for instance, the adverb *asen* is part of the adverbial clause only. The main clause (‘... bad things have happened’) implies that the things that happened still bear a certain relevance for the present, which is true, because the speakers utter an excuse for their rude behavior in the previous night when they were drunken.

- (31) *kaniŋ asen men-ni=nun men-ni=nun=ca isisi*
 1PL[ERG] yesterday NEG-know=COM.CL NEG-know=COM.CL=ADD ugly
leks-a-ma=ha
 happen[3SG]-PST-PRF=NMLZ.NC
 ‘Even though we did not notice it yesterday, something bad has happened.’
 [41_leg_09.064]

Contrary to the statement that the perfect expresses events that still have a certain relevance for the past, this tense form also figures prominently in narratives. It seems that this is a strategy to connect the content of the story told to the here and now of the utterance context and thus to make it more ‘real’ and create suspense. More research is needed to reveal the exact application of the Perfect.

As for the conditions of the perfect allomorphy, in the intransitive inflection, the form marked by the simple past suffix *-a* serves as base to which the suffix *-ma* for the perfect is attached. In forms with the suffix *-i* (i.e. where *-a* surfaces as [i]), the marker has an allomorph *-mi*, i.e. the suffix *-i* for 1/2PL regressively influences the vowel quality of the two suffixes *-a* and *-ma* (see (32)).

- (32) a. *khy-a-ma-ci-ŋ=ha*
 go-PST-PRF-DU-EXCL=NMLZ.NSG
 ‘We (dual) have gone.’
 b. *khe-i-mi-ŋ=ha*
 go-1PL-PRF-EXCL=NMLZ.NSG
 ‘We (plural) have gone.’

In the transitive paradigm, a suppletive allomorph *-uks* ~ *-nun* (pre-vocalic vs. pre-consonantal alternants) comes into play. This allomorph never co-occurs with *-a*. As has been shown already above for the allomorphy of the nonpast markers, this allomorphy is conditioned by scenario classes, i.e. by participant configurations, albeit with a slightly different distribution that in the nonpast allomorphy. Again, it is not possible to find one particular principle or hierarchy triggering the allomorphy. The perfect allomorphy is less complex than the nonpast allomorphy: it partly indicates inverse vs. direct scenarios (with a 3>1, 3>2 and 2>1 scenarios being inverse and marked by *-ma*), but it also indicates number of the agent in all scenarios with a third person patient, since in those forms all dual agents trigger *-ma*, while singular and plural agents trigger *-uks*. In the suffix string, *-uks* ~ *-nun* shares Slot 1 with NPST *-me?* and *-a*, and *-ma* ~ *-mi* follows *-a* (which surfaces as [i] in 1/2PL forms) in Slot 2.

	INTRANSITIVE	TRANSITIVE		
		1	2	3
1SG	-ma		-nuŋ	-uks
1DU				-ma
1PL				-uks
2SG				-ma
2DU				
2PL				
3SG				-ma
3DU				
3PL				
		-ma		-uks

Table 8.15: Distribution of perfect allomorphs

Table 8.15 shows the distribution of the allomorphs across the inflectional paradigms (intransitive and transitive). Paradigm tables can be found on page 241 for the intransitive inflection and on page 245 for the transitive inflection.

The etymological sources of these markers are also function verbs. At least *-uks* has the unmistakable structure of a verbal stem. Its lexical origin could either be the verb *uks* ‘come down’ or *yuks* ‘put, keep’. The pre-consonantal variant *-nuŋ* of *-uks* is also reminiscent of morphophonological processes in complex predicates. The origin of *-ma* could not be traced. These markers differ from function verbs in not appearing in the infinitival forms (citation forms, for instance) and in not licensing the recursive inflection that is typical for complex predication (cf. Chapter 10).

8.4.2.3 The Past Perfect

The Perfect marking, in turn, serves as base to which *-sa* ~ *-si* is attached (*-si* being triggered by suffix *-i*, in analogy to the perfect allomorphy of *-ma* ~ *-mi*). Thus, one arrives at the complex Past Perfect markers *-amasa* ~ *-imisi* and *-uksa*, with the same distribution across the participant scenarios as found in the Perfect. The suffix *-sa* might be etymologically related to the past copular stem *sa*.

This tense form expresses events that happened prior to another event that has been activated in discourse, as shown in (33).

- (33) a. *hakt-a-ŋ-ga-ni* *bhoŋ* *mit-amasa-ŋ=na*
 send-SBJV-1SG.P-2.A-OPT COMP think-PST.PRF-1SG=NMLZ.SG

‘I had hoped that you would send me something.’ (said either after receiving a parcel or after realizing that nothing was sent)

- b. *he?ne khy-amasa-ga=na?*
 where go-PST.PRF-2=NMLZ.SG
 ‘Where had you gone?’ (it was clear from the context that the person was on the way back to her village)
- c. *u-mik encho=ba homd-uksa=na,*
 3SG.POSS-eye long_ago=EMPH swell-PST.PRF=NMLZ.SG
hensen=go nu-yama=na
 these_days=TOP get_well-PRF=NMLZ.SG
 ‘His eye had been swollen before, but these days it got well.’

8.4.3 The Progressive

The Progressive is constructed from an infinitival form of the lexical verb and the auxiliary *si?*, which can carry person markers and either Present or Simple Past inflection. This construction resembles infinitival complement constructions and has probably developed out of such a construction. But here, the two predicates are fused at a lower level. This is also reflected by the morphology and by stress assignment, which treat the whole complex as one unit. The auxiliary, unlike matrix verbs in complement constructions, does not carry main stress; it forms one domain for stress assignment with the lexical verb. The auxiliary does not have an infinitival form (in contrast to complement-taking verbs, which may appear in the infinitive and thus be embedded recursively into other complements). Inflectional prefixes, which attach to the matrix verb in complement constructions, attach to the infinitive of the lexical verb in the progressive (compare (34a) with (34b) and (c)). This leads to the unusual situation of an infinitive marker standing between the prefix and the suffixes of an inflected verb.²¹

- (34) a. *haku nda nhe uŋ-ma*
 from.now.on 2SG here come_down-INF
n-dokt-wa-ga-n=na
 NEG-get_chance-NPST[3.P]-2SG.A-NEG=NMLZ.SG
 ‘Now you will not get the chance to come down here any more.’
 [21_nrr_04.035]
- b. *nna se?ni=ŋa caleppa l-lem-ma-sy-a=ha*
 that night=INS bread 3PL-fry-INF-AUX.PROG-PST=NMLZ.NC

²¹This construction is best characterized as a hybrid between synthetic and analytic (periphrastic) marking, since the auxiliary behaves like a verbal stem at least with regard to the suffixes it may host. Thus, it is not treated with regard to the slot analysis.

- ‘That night they were frying bread.’ [40_leg_08.032]
- c. *uŋ=ŋa pyak sakhe?wa=ci=ŋa casak*
 3SG=ERG many pigeon=NSG=ERG uncooked_rice
ŋ-gom-ca-ma-sim-me=ha
 3PL-pick_up-V2.EAT-INF-AUX.PROG-NPST=NMLZ.NSG
nis-uks-u-ci
 see[3SG.A]-PRF-3.P-3NSG.P
 ‘He saw many pigeons who were picking up (pecking with their beaks)
 and eating the rice.’ [01_leg_07.013]

Semantically, the progressive generally marks events as ongoing at the point of speaking (present progressive) or at a point prior to the speech situation (past progressive). However, looking at (34c), it becomes clear that the speech situation is not the only possible temporal anchor for the present progressive, since in this example, the point of reference is the event denoted by the main verb ‘see’, and the progressive marking of the embedded clause has to be interpreted with respect to the main clause.

The progressive is also commonly found in adverbial clauses with *-niŋ*, the marker for the cotemporality of two linked clauses (see (35)).

- (35) *u-sa sem-saŋ u-sam=be*
 3SG.POSS-fruit pluck-SIM.CVB 3SG.POSS-root=LOC
ca-ma-sy-a-ŋ=niŋ,
 eat-INF-AUX.PROG-PST-1SG=CTMP
 ‘As I was plucking and eating the fruits under the tree, ...’²² [42_leg_10.017]

Interestingly, the progressive auxiliary is sensitive to the speech-act-participant (SAP/non-SAP) distinction. It is inflected like an intransitive verb when third person P arguments are involved, also when the semantic head is a transitive verb (see (36a)). The auxiliary verb shows agreement with the S or the A of the lexical verb. A transitive example as in (34c) also shows that despite the intransitive person marking the lexical verb is still able to assign the ergative case to the subject (*sakhe?waciŋa*). When the object is a speech act participant, it shows transitive person marking, as exemplified in (36b) and (c). This process is not surprising given the abundance of differential marking that is triggered by the referential properties of arguments in Yakkha.

- (36) a. *ka kucuma yok-ma-si-me-ŋ=na*
 1SG[ERG] dog search-INF-AUX.PROG-NPST-1SG=NMLZ.SG

²²The noun *sam* is a relational noun, with the metaphorical meaning ‘under/at the bottom of’.

- ‘I am looking for the dog.’ (**yokmasiwaŋna*)
- b. *ka nda yok-ma-si-meʔ-nen=na*
 1SG[ERG] 2SG search-INF-AUX.PROG-NPST-1>2=NMLZ.SG
 ‘I am looking for you.’
- c. *photo=ci soʔ-meʔ-ma-sy-a-ŋ-ga=na*
 photo=NSG look-CAUS-INF-AUX.PROG-PST-1SG.P-2.A=NMLZ.SG
 ‘You were showing me the photos.’

8.4.4 The Periphrastic Continuative

This construction has developed out of a converb construction, in analogy to a similar construction in Nepali. The lexical head is marked by the converbal marker *-saŋ* and the main verb is invariably *kheʔma* ‘go’, but it has undergone grammaticalization to an auxiliary, from motion verb semantics to the expression of continuous events, similar to the English expression ‘go on doing’. A formerly biclausal construction has become monoclausal.

The Continuative expresses that an event goes on over a longer stretch of time. It applies regardless of whether the verb has active, volitional semantics (37a) or rather change-of-state semantics (see (37b)). Example (37a) also shows that the auxiliary is compatible with the perfect tense. Example (37b) shows that in contrast to the periphrastic progressive, prefixes attach to the auxiliary. In (37c), the construction is shown with a transitive lexical verb. The auxiliary is still inflected intransitively, showing agreement with the A argument of the lexical verb.

- (37) a. *nakhaʔla luk-khusa ca-saŋ khy-ama-ci=niŋa...*
 like_that tell-RECIP EAT.AUX-SIM.CVB go-PRF-DU=CTMP
 ‘As the two went on arguing (lit: with each other) like that, ...’
 [01_leg_07.340]
- b. *yapmi=ci pu-saŋ ŋ-khy-a*
 person=NSG grow-SIM.CVB 3PL-go-PST
 ‘The number of the people grew continuously, ...’ [27_leg_06.003]
- c. *iŋ-nhaŋ-saŋ ik-saŋ khy-a-ci=niŋa,*
 chase-V2.SEND-SIM chase-SIM go-PST-DU=CTMP
 ‘As they (dual) went on chasing them away, ...’ [22_nrr_05.015]

8.4.5 The Transitive Completive

The marker *-i ~ -ni* is only found in transitive verbs. It surfaces as [i] before vowels and as [ni] before consonants (see (38) and (39)).

- (38) a. *mend-i*
 finish-COMPL[3A;3P]
 ‘It is finished.’
 b. *chimd-i-η=na*
 ask-COMPL[3P;PST]-1SG.A=NMLZ.SG
 ‘I finished asking him.’

The marker partly behaves like a function verb, and is thus not treated in the slot analysis (see also §10.2.2): it precedes Slot 1 in the inflection, and it stands in complementary distribution with the V2 *-pi?* ‘give’, which (among many other functions) indicates completive notions in intransitive predicates. The marker *-i ~ -ni* also surfaces in the citation forms, like a function verb. There is, however, no lexical verb (at least not synchronically) that it relates to. The two markers often create lexicalized pairs of intransitive and causative verbs (see (39), repeated from Chapter 10, where more examples can be found). Roots like *maks* never occur independently; either *-i ~ -ni* or *-pi?* have to attach to them and specify their valency.

- (39) a. *maŋmaŋ-miŋmiŋ m-maks-a-by-a-ma*
 surprised-REDUPL 3PL-surprise-PST-V2.GIVE-PST-PRF
 ‘They were utterly surprised.’ [22_nrr_05.026]
 b. *ka nda mak-ni-me?-nen=na*
 1SG[ERG] 2SG[NOM] surprise-COMPL-NPST-1>2=NMLZ.SG
 ‘I will surprise you.’

8.4.6 Tense/aspect paradigm tables

	<i>khe?ma</i> ‘go’	<i>apma</i> ‘come’
1SG	khemer̥na ŋkhemer̥ŋanna	ammer̥na ŋammer̥anna
1DU.EXCL	khemer̥ciŋha ŋkhemenciŋanha	ammer̥ciŋha ŋammenciŋanha
1PL.EXCL	kheiwar̥ha ŋkheiwar̥anha	abiwar̥ha ŋabiwar̥anha
1DU.INCL	khemeciya ŋkhemencinha	ammeciya ŋammencinha
1PL.INCL	kheiw̥ha ŋkheiw̥anha	abiw̥ha ŋabiw̥anha
2SG	khemekana ŋkhemekanna	ammekana ŋammekanna
2DU	khemecigha ŋkhemenciganha	ammecigha ŋamenciganha
2PL	kheiwagha ŋkheiwaganha	abiwagha ŋabiwaganha
3SG	khemer̥na ŋkhemenna	ammer̥na ŋamenna
3DU	khemeciha ŋkhemencinha	ammer̥ciya ŋamencinah
3PL	ŋkhemer̥(haci) ŋkhemer̥(haci)	ŋammer̥(haci) ŋamer̥(haci)

Table 8.16: Nonpast paradigm of *khe?ma* ‘go’ and *apma* ‘come’ (affirmative and negative)

	1SG	1NSG	2SG	2DU	2PL	3SG	3NSG
1SG				tummeʔnenna ndummeʔnenna	tummeʔneninha ndummeʔneninha	tundwajna ndundwajanna	tundwajɲha ndundwajɲanha
1DU.EXCL				tummeʔnencina ndummeʔnencinha		tummeɲcuɲa ndummencuɲanna	tummeɲcuɲɲha ndummencuɲɲanha
1PL.EXCL						tundwamɲa ndundwamɲanna	tundwamɲɲha ndundwamɲɲanha
1DU.INCL						tummecuna ndummencunna	tummecuciha ndummencuncinha
1PL.INCL						tundwamna ndundwamninna	tundwamcimha ndundwamcimninha
2SG	tummeɲgana ndummeɲganna					tundwaga ndundwaganna	tundwaciɲha ndundwaciɲanha
2DU	tummekaha ndummekanha					tummecugana ndummencuganna	tummecuciɲha ndummencunciganha
2PL						tundwamɲa ndundwamɲanna	tundwamciɲɲha ndundwamciɲɲanha
3SG	tummeɲna ndummeɲanna				tundiwagha ndundiwaganha	tundwana ndundwana	tundwaciya ndundwancinha
3DU	tummeha ndummenha					tummecuna ndummencunna	tummecuciha ndummencuncinha
3PL						ndundwana ndundwaninna	ndundwaciha ndundwancininha

Table 8.17: Nonpast paradigm of *tumma* ‘understand’ (affirmative and negative)

	PST	PST.NEG	PRF	PRF.NEG	PST.PRF	PST.PRF.NEG
1SG	abaŋna	ŋabaŋanna	abamaŋna	ŋabamaŋanna	abamaŋna	ŋabamaŋanna
1DU.EXCL	abaŋciŋha	ŋabanciŋanha	abamaŋciŋha	ŋabamanciŋanha	abamaŋciŋha	ŋabamasanciŋanha
1PL.EXCL	abiŋha	ŋabiŋanha	abimiŋha	ŋabimiŋanha	abimiŋha	ŋabimiŋanha
1DU.INCL	abaciha	ŋabancinha	abamaciha	ŋabamancinha	abamasaciha	ŋabamasancinha
1PL.INCL	abiha	ŋabinha	abimiha	ŋabiminha	abimisiha	ŋabimisinha
2SG	abagana	ŋabaganna	abamagana	ŋabamaganna	abamasagana	ŋabamasaganna
2DU	abacigha	ŋabanciganha	abamacigha	ŋabamanciganha	abamasacigha	ŋabamasanciganha
2PL	abigha	ŋabiganha	abimigha	ŋabimiganha	abimisiġha	ŋabimisiġanha
3SG	abana	ŋabanna	abamana	ŋabamanna	abamasana	ŋabamasanna
3DU	abaciha	ŋabancinha	abamaciha	ŋabamancinha	abamasaciya	ŋabamasancinha
3PL	ŋabahaci	ŋabanhaci	ŋabamhaci	ŋabamanhaci	ŋabamashaci	ŋabamasanhaci

Table 8.18: Simple past, perfect and past perfect paradigm of *apma* ‘come’

	1SG		1NSG	2SG	2DU	2PL	3SG	3NSG		
1SG				piʔnenna mbiʔnenna	piʔnencia mbiʔnencia	piʔnenina mbiʔnenina	piŋna mbiŋanna	piŋciŋha mbiŋciŋanha		
1DU.EXCL							pyaŋcuŋna mbyancuŋanna	pyaŋcuŋciŋha mbyancuŋciŋanha		
1PL.EXCL							pimŋana mbimŋanna	pimciŋha mbimciŋanha		
1DU.INCL							pyacuna mbyancunnaha	pyacuciha mbyancuncinaha		
1PL.INCL							pimna mbimninna	pimcimha mbimcimninna		
2SG	pyaŋgana mbyaŋganna							pigana mbiganna	piciŋha mbinciganha	
2DU	pyagha mbyaganha							pyacugana mbyancuganna	pyacuciŋha mbyancunciganha	
2PL								pimŋana mbimŋanna	pimciŋgha mbimciŋganha	
3SG	pyaŋna mbyaŋanna	piya mbyanha		pyagana mbyaganna	pyacigha mbyanciganha	piiŋha mbiiŋanha	pina mbinna	piciya mbincinha		
3DU				mbyaganha mbyaganinna			pyacuna mbyancunna	pyacuciya mbyancuncinaha		
3PL									mbina mbininna	mbiciya mbincininna

Table 8.19: Simple past paradigm of *piʔma* ‘give’ (affirmative and negative, with singular T argument)

	1SG	1NSG	2SG	2DU	2PL	3SG	3NSG	
1SG				chimmenna nchimmenna	chimmnencinha nchimmnencinha	chimduɲna nchimduɲanɲa	chimdunɲiɲha nchimdunɲiɲanɲa	
1DU.EXCL						chimdauɲna nchimdauɲanɲa	chimdauɲciɲha nchimdauɲciɲanɲa	
1PL.EXCL				chimneninha nchimneninha		chimdumɲna nchimdumɲanɲa	chimdumciɲha nchimdumciɲanɲa	
1DU.INCL						chimdacuna nchimdancunna	chimdacuciha nchimdancuncinha	
1PL.INCL						chimdumna nchimdumninna	chimdumcimha nchimdumcimninha	
2SG	chimdugana nchimduganɲa	chimdugigha nchimdunciganha						
2DU	chimdagha nchimdaganha		chimdacugana nchimdancuganna			chimdacucigha nchimdancunciganha		
2PL			chimdumgana nchimdumganna			chimdumcingha nchimdumcinganha		
3SG	chimdajna nchimdajɲanna	chimdaha nchimdanha	chimdagana nchimdaganna	chimdacigha nchimdanciganha	chimdigha nchimdiganha	chimduna nchimdunna	chimduciya nchimduncinha	
3DU			nchimdagana nchimdaganinna	chimdacuna nchimdancunna		chimdacuciha nchimdancuncinha		
3PL				nchimduna nchimduninna		nchimduciha nchimduncininha		

Table 8.20: Simple past paradigm of *chimma* ‘ask’ (affirmative and negative)

	1SG		1NSG	2SG	2DU	2PL	3SG	3NSG
1SG				caʔnenna njaʔnenna	caʔnencina njaʔnencina	caʔnenina njaʔnenina	capna njaɲanna	caɲciɲha njaɲciɲɲha
1DU.EXCL							cayaɲcuɲna njayancuɲna	cayaɲcuɲɲha njayancuɲɲciɲɲha
1PL.EXCL								camɲana njaɲmɲanna
1DU.INCL							cayacuna njayancunna	cayacuciha njayancuncinɲha
1PL.INCL							camna njaɲmninna	camciɲha njaɲmciɲmninna
2SG	cayaɲgana njaɲaɲgana						cogana njaɲogana	co:cigha njaɲoncigha
2DU	cayagha njaɲayaganɲha						cayacugana njayancugana	cayacucigha njayancuncigha
2PL							camgana njaɲamgana	camcingha njaɲamcingaɲha
3SG	coyaɲna ~ cayaɲna njaɲayaɲanna	coya ~ caya njaɲayaɲha	coyagana ~ cayagana njaɲayagana	coʔyacigha ~ cayacigha njaɲayancigha	coigha ~ caigha njaigha	cona	cociya njaɲonciɲha	
3DU	caya njaɲayaɲha		cayagana njaɲayagana	cayacigha njaɲayancigha	caigha njaigha	cayacuna njayancunna	cayacuciya njayancuncinɲha	
3PL			njayagana njaɲayaganinna		njona njaɲoninɲha	njociya njaɲonciɲinɲha		

Table 8.21: Simple past paradigm of *cama* ‘eat’ (affirmative and negative)

	1sg	1NSG	2SG	2DU	2PL	3SG	3NSG
1SG			chimnupnenna nchimnupnenna	chimnupnencinha nchimnupnencinha	chimnupneninha nchimnupneninha	chimdusupna nchimdusupnanna	chimdusuncinpha nchimdusuncinphanha
1DU.EXCL						chimdamaɽcupna nchimdamancupnanna	chimdamaɽcupciɽpha nchimdamancuncinphanha
1PL.EXCL						chimdusumɽjana nchimdusumɽjanna	chimdusumcimɽpha nchimdusumcimɽphanha
1DU.INCL						chimdamacuna nchimdamancunna	chimdamacuciha nchimdamancuncinpha
1PL.INCL						chimdusumna nchimdusuminna	chimdusumcimha nchimdusumcimninna
2SG	chimdamaɽna nchimdamaɽnanna		chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdusugana nchimdusuganna	chimdusucigha nchimdusuncinpha
2DU						chimdamacugana nchimdamancuganna	chimdamacucigha nchimdamancuncinpha
2PL						chimdusumɽana nchimdusumɽganna	chimdusumcimɽgha nchimdusumcimɽghanha
3SG	chimdamaɽna nchimdamaɽnanna		chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdusuna nchimdusunna	chimdusuciya nchimdusuncinpha
3DU			chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna
3PL						chimdamaɽna nchimdamaɽnanna	chimdamaɽna nchimdamaɽnanna

Table 8.22: Perfect paradigm of *chirma* ‘ask’ (affirmative and negative)

8.5 Mood

Apart from the indicative, Yakkha distinguishes subjunctive, optative and imperative mood. These mood inflections generally do not allow the nominalizing clitics =*na* and =*ha*, since they are functionally connected to assertions and questions (but see below for an exception).

8.5.1 The Subjunctive

The subjunctive mood is crosscut by what is best described as a tense distinction (nonpast/past). The Nonpast Subjunctive does not have a dedicated marker, it is simply characterized by the absence of tense marking. It is used for hypothetical statements, hortatives, warnings, threats, and permissive questions ('May I ...?'). The Past Subjunctive is found in counterfactual statements, but also in adverbial clauses, especially in conditionals, when the speaker assesses the chances for the condition to come true as rather low (see §14.8 and §14.13). The Past Subjunctive is marked by *-a*, and hence, the forms of the Past Subjunctive paradigm are in most cases identical to the Past Indicative forms, without the clitics =*na* and =*ha*, however.²³ In third person plural forms of intransitive verbs, the negation in the Past Subjunctive looks different from the past indicative (e.g. *ŋkhyanhaci* 'they did not go' vs. *ŋkhyanin* 'they might not go').

The negated forms are built in analogy to the indicative negated forms, i.e. either with *N...-n* or *N...-nin*. Here, one can note a slight extension of the domain of *-nin*: the form *chim*, for third person acting on first, has the negative counterpart *nchimnin*, since monosyllabic **n-chim-n* would not be a well-formed syllable in Yakkha. Surprisingly, some negated forms of the Nonpast Subjunctive are marked by =*na* in the intransitive paradigm, which is the only exception to the rule that the nominalizing clitics do not occur in the mood paradigms.²⁴ It is unusual, however, that invariably the singular form =*na* occurs, and never =*ha*. Alternatively,

²³ Alternatively, one could propose that Yakkha has no mood distinction in the past, and instead, the clitics =*na* and =*ha* overtly mark the indicative. However, first of all, these clitics are optional also in the indicative, as they fulfill a discourse function. Secondly, a few forms in the inflectional paradigms of Past Indicative and Past Subjunctive indeed look different from each other (see right below in the text).

²⁴ An ad-hoc explanation is that negations are more assertive than affirmative forms and thus allow this marker. The question why only the present negated forms take =*na* can be answered similarly. The present forms are more 'real' and thus more assertive. They denote rather likely events, while the Past Subjunctive denotes events that are more detached from the speech situation, such as highly hypothetical and counterfactual events. The syncretism of past and irrealis forms is not unusual crosslinguistically and can be attributed to a semantic feature of

this marker =*na* could be analyzed as a dedicated marker for Nonpast Subjunctive negative forms.

Intransitive subjunctive paradigms are provided in Table 8.23, exemplified by *khe?ma* ‘go’, with a few forms not attested. Since the suffix *-a* is deleted in the presence of the suffix *-i*, the forms with first and second person plural are identical in the Nonpast Subjunctive and the Past Subjunctive. A transitive paradigm for the Nonpast Subjunctive is shown in Table 8.24. In the form for 2SG>1SG, *chimdanga*, an /a/ gets epenthesized to resolve the impossible sequence of consonants in the underlying form /chimd-ŋ-ga/, making this form identical to the Past Subjunctive form.

	NONPAST SBJV.		PAST SBJV.	
	AFFIRMATIVE	NEGATIVE	AFFIRMATIVE	NEGATIVE
1SG	khe?ŋa	ŋkhe?ŋanna	khyan	ŋkhyanan
1DU.EXCL	kheciŋ	ŋkheciŋanna	khyanŋciŋ	ŋkhyanŋciŋan
1PL.EXCL	kheŋ	ŋkheŋanna	kheŋ	ŋkheŋan
1DU.INCL	kheci	ŋkhecinna	khyaci	ŋkhyancin
1PL.INCL	khei	ŋkheinna	khei	ŋkhein
2SG	kheka	ŋkhekanna	khyaga	ŋkhyagan
2DU	kheciga	ŋkheciganna	khyaciga	ŋkhyancigan
2PL	kheiga	ŋkheiganna	kheiga	ŋkheigan
3SG	khe	n.d.	khya	ŋkhyan
3DU	kheci	n.d.	khyaci	ŋkhyancin
3PL	ŋkhe(ci)	n.d.	ŋkhya(ci)	ŋkhyanin

Table 8.23: Subjunctive paradigm of *khe?ma* ‘go’

Some typical examples of the Nonpast Subjunctive are provided in (40): questions, hortatives, warnings, threats and permissive questions.

- (40) a. *he?ne khe-i?*
 where go-1PL[SBJV]
 ‘Where should we go?’
 b. *imin cog-u-m?*
 how do-3.P-1PL.A[SBJV]
 ‘How should we do it?’

‘dissociativeness’ that they have in common (see e.g. (Bickel 1996: 88) for the same point on the Belhare system).

- c. *ciya hops-u-m?*
tea sip-3.P-1PL.A[SBJV]
'Shall we have tea?'
- d. *sori khe-ci-η*
together go-1DU-EXCL[SBJV]
'May we go together?' (asking someone who is not coming with the speaker)
- e. *lem-nhaη-nen?*
throw-V2.SEND-1>2[SBJV]
'Shall I throw you out?'
- f. *kaη-khe-ka!*
fall-V2.GO-2[SBJV]
'You might fall down!'
- g. *uη-u-m!*
drink-3.P-1PL.A[SBJV]
'Let's drink!'
- h. *haku im-ci*
now sleep-DU[SBJV]
'Let's sleep now (dual).'

Some examples of the Past Subjunctive are provided in (41). Mostly, they are found in counterfactual clauses (with the irrealis clitic *=pi ~ =bi*), but also in vague statements about the future, i.e. when the realis status cannot be confirmed yet. The overwhelming majority of conditional clauses are in the Past Subjunctive.

- (41) a. *manuη=go heco=bi*
otherwise=TOP win[3SG;SBJV]=IRR
'If not, he would have won!'
- b. *casowa n-jog-a-n bhon punḍaraṇma=ga*
Casowa_festival NEG-do[3SG]-SBJV-NEG COND forest_goddess=GEN
o-lok khom-me
3SG.POSS-anger scratch[3SG]-NPST
'If Casowa is not celebrated, the forest goddess will get angry.'
[01_leg_07.119]

A very nice contrastive example of Nonpast and Past Subjunctive is shown in (42). The speaker considers doing something, and first is unsure, using the Past Subjunctive. Then, as she is more determined, she uses the Nonpast Subjunctive.

- (42) a. *ki nhe=le ips-a-η?*
or here=CTR sleep-SBJV-1SG
'Or should I sleep right here?'
[36_cvs_06.220]

- b. *nhe* *im-ŋa* *haʔlo*
 here sleep-1SG[SBJV] EXCLA
 ‘I could sleep here anyway.’

[36_cvs_06.221]

	1SG	1NSG	2SG	2DU	2PL	3SG	3NSG
1SG			chimnen	chimnencin nchinnencin	chimnenin nchinnenin	chimdun	chimdunɕin
1DU.EXCL			nchimnen			nchimdun	nchimdunɕin
1PL.EXCL						chimcun	chimcunɕin
1DU.INCL				nchimecun		nchimecunɕin	
1PL.INCL				chimdum		chimdumɕin	
2SG	chimdanga nchimdangan	chimga nchingan				chimduga	chimduga
2DU						nchimdugan	nchimdugan
2PL						chimecuga nchimecugan	chimecuga nchimecugan
3SG	chimɲa nchimɲan	chim nchimnin	chimga nchingan	chimciga	chimdiga nchimdigan	chimu	chimuɕi
3DU			chimciga nchimecigan	chimcu		nchimecun	
3PL			nchinga nchinganin	nchimu		nchimuɕi	

Table 8.24: Nonpast Subjunctive paradigm of *chimma* ‘ask’ (affirmative and negative), becomes optative by addition of *-ni*

8.5.2 The Optative

The Optative is morphologically marked by the suffix *-ni*, which is attached to the Nonpast Subjunctive forms described above. It expresses the speaker's wish for an event to be realized, while its realization is beyond the speaker's reach, as in the examples in (43). The expression *leŋni*, the third person singular optative of *leŋma* 'be, become' is also used to state agreement on the side of the speaker when he is asked or encouraged to do something.

- (43) a. *o-chom=be tas-u-ni*
 3SG.POSS-summit=LOC reach-3.P-OPT
 'May she reach the top./May she be successful.'
- b. *ucun leŋ-ni*
 good become[3SG]-OPT
 'May it (your work) turn out nicely.'
- c. *miʔ-ŋa-ni*
 think-1SG.P-OPT
 'May he remember me.'
- d. *mit-aŋ-ga-ni*
 think-1SG.P-2.A-OPT
 'May you remember me.'

The optative is also found in purposive adverbial clauses with the purposive/conditional conjunction *bhoŋ*, discussed in §14.9 (see also (44)).

- (44) *ap-ŋa-ni bhoŋ ka-ya-ŋ=na*
 come-1SG-OPT COND call-PST-1SG=SG
 'She called me, so that I would come.'

Negation is marked by *N-...-n*, and by *N-...-nin* when there is no vowel preceding the suffix. Table 8.25 illustrates this by means of the third person intransitive forms.

OPTATIVE		
3SG	kheʔni	ŋkheʔninni
3DU	khecini	ŋkhecinni
3PL	ŋkheʔni	ŋkheʔninni

Table 8.25: Optative, third person (intransitive)

8.5.3 The Imperative

The Imperative expresses orders and requests. It is coded by the morpheme *-a*, like the Simple Past and the Past Subjunctive. The conflation of past and imperative morphology is also known from other Kiranti languages (Bickel 2003, Ebert 2003a) and apart from that it is crosslinguistically common, too. Thus, imperative forms are almost identical to the past forms, except for a new plural morpheme *-ni*.

The negated imperative expresses negative requests and negative orders (i.e., prohibitions). It is also used in implorations like e.g. *nsisanan!* ‘Do not kill me!’. Paradigms can be found in Table 8.26 for intransitive and in Table 8.27 for transitive verbs.

Imperatives directed at more than one person show dual or plural morphology (see (45)). Imperatives can be intensified by adding person inflection and the emphatic marker *=i* (see (45b) – (45d)).

- (45) a. *ab-a*
come-IMP
‘Come.’
- b. *ab-a-ga=i!*
come-IMP-2=EMPH
‘Come!’
- c. *ab-a-ci-ga=i!*
come-IMP-DU-2=EMPH
‘Come!’ (dual)
- d. *ab-a-ni-ga=i, nakhe omphu=be yuŋ-a-ni-ga=i!*
come-IMP-PL-2=EMPH, hither verandah=LOC sit-IMP-PL-2=EMPH
‘Come, and sit down here on the verandah!’ (plural)

The imperatives show a second register, increasing the politeness of the order or request. The marker *=eba* (historically probably a combination of the two emphatic markers *=i* and *=pa*) can be added to the imperative forms to make them more polite, similar to the function of the particle *na* in Nepali (46). This politeness, however, can be countered ironically by adding *=ŋlo* to these polite imperatives, an exclamative particle which usually signals that the patience of the speaker is getting low (see (46c), *ca* has ablaut).²⁵

²⁵Combinations of emphatic particles and information-structural clitics with *=ŋlo* result in a word with regard to stress (e.g. [co.e 'ba.ŋlo] in (46c)). According to the voicing rule, this complex of two stress domains is still one word, however. Other examples of this phonological fusion of particles are *'leŋlo*, *'haŋlo*, *'caŋlo* (see Chapter 17).

- (46) a. *ab-a=eba*
come-IMP=POL.IMP
'Please come.'
- b. *η-ab-a-n=eba*
NEG-come-IMP-NEG=POL.IMP
'Please do not come.'
- c. *co=eba=?lo!*
eat[IMP]=POL.IMP=EXCLA
'Eat already!'

	IMPERATIVE	NEGATED	IMPERATIVE	NEGATED
	<i>khe?ma</i> 'go'		<i>apma</i> 'come'	
2SG	khya	ηkhyan	aba	ηaban
2DU	khyaci	ηkhyanцин	abaci	ηabancin
2PL	khyani	ηkhyanin	abani	ηabanin

Table 8.26: Imperative paradigm, intransitive verbs

	1SG	1NSG	3SG	3NSG	DETRANS
	<i>pi?ma</i> 'give'				
2SG	pyaη mbyarjan		pi mbin	pici mbincin	pya mbyan
2DU	pya mbyan		pyacu mbyancun	pyacuci mbyancuncin	pyaci mbyancin
2PL			pyanum mbyanumnin	pyanumcim mbyanumcimnin	pyani mbyanin
	<i>chimma</i> 'ask'				
2SG	chimdaη nchimdaηa		chimdu nchimdun	chimduci nchimduncin	chimda nchimdan
2DU	chimda nchimdan		chimdacu nchimdancun	chimdacuci nchimdancuncin	chimdaci nchimdancin
2PL			chimd anum nchimd anumnin	chimd anumcim nchimd anumcimnin	chimdani nchimd anin

Table 8.27: Imperative paradigm, transitive verbs

8.6 Periphrastic honorific inflection

Honorific inflection in indicatives is not found in the Tumok dialect, but during a short stay in Dandagaun village I noticed a honorific construction which in form and function is similar to the Nepali honorific construction with an infinitival form of the lexical verb and a copular auxiliary. The function of the auxiliary is carried out up by the verb *leṇma* ‘be, become’; it is inflected intransitively and shows agreement with the subject (S or A) of the semantic head. The Nepali source construction is built by adding an inflected form of a copula (always third person, *huncha/hunna/bhayo/bhaena* ‘is/is not/was/was not’) to the infinitival form of the semantic head, which is used for both addressing people and talking about people. For instance, *garnuhuncha* is the honorific way of saying both ‘he does’ and ‘you do’ in Nepali. In Yakkha, it is not a fixed third person form of *leṇma* that is added to the infinitive, but the verb is inflected also for second person, showing agreement with the S argument (see (47), I have no data for transitive forms). Naturally, the first person is impossible with honorifics.

- (47) a. *heʔne kheʔ-ma leks-a-ga=na*
 where go-INF be-PST-2SG=SG
 ‘Where did you go?’
 b. *heʔnaŋ ta-ma leks-a-ga=na*
 where.from come-INF be-PST-2SG=NMLZ.SG
 ‘Where do you come from?’

This construction also has a corresponding imperative, again analogous to the Nepali construction, with the infinitive and the third person optative form of the auxiliary verb *leṇma*, which is *leṇni* in Yakkha (see (48)), and *hos* in Nepali.²⁶

- (48) a. *toṇba piʔ-ma leṇ-ni=ba*
 beer suck-INF be[3SG]-OPT=EMPH
 ‘Please drink the beer.’
 b. *kinama ca-ma leṇ-ni=ba*
 fermented_soybean_dish eat-INF be[3SG]-OPT=EMPH
 ‘Please eat the *kinama*.’

The functional domain of the honorific inflection in Yakkha slightly differs from the source language. While in Nepali, the honorific pronouns and verb forms are also used to address elders within the family and other respected, but very close

²⁶ *Toṇba* is millet beer that is served in a small wooden or nowadays aluminum barrel, with a lid and a pipe, hence the verb ‘suck’.

people like the husband (not the wife), the Yakkha honorific inflection rather signals respectful behavior that is connected to social distance (as far as could be told after my short stay in Dandagaun).

8.7 The inflection of the copulas

In this section, the inflection of two copular verbs will be discussed. The inflectional categories are similar to those in the regular verbal inflection, i.e. person, polarity and TAM, but they show some formal and functional peculiarities. For instance, two prefix slots can be found in the copular inflection. Furthermore, some forms make a nonpast/future distinction, which is not found in the regular verbal inflection. As for the semantics of the inflectional forms presented here, I can only present tentative conclusions. Further examples of the use of the copulas are shown in §11.1.11.

8.7.1 The identificational copula

The identificational copula is used to express identification, equation and class inclusion (see (49)). It does not have an infinitival form. The stem of this copula is zero in the present tense and *sa* in the past tenses. In the affirmative present forms, the copula has overt forms only for speech-act participants, and even there it is optional. In the other tenses and in negated clauses, the copula is obligatory.

- (49) a. *ka, ka kha?la ŋan=na=ba!*
 1SG 1SG like_this COP.1SG.NPST=SG=EMPH
 ‘I, I am just like this!’ [21_nrr_04.006]
- b. *nda isa=ga u-cya gan?*
 2SG who=GEN 3SG.POSS-child COP.2SG.NPST
 ‘Whose child are you?’
- c. *ka=ca chalumma ŋan*
 1SG=ADD second_born_daughter COP.1SG.NPST
 ‘I am also a second-born daughter.’

An overview of the person and tense/aspect inflection of the identificational copula is provided in Table 8.28. In the present tense, the copular inflection consists of suppletive forms that resemble the person markers. Deviations from the verbal person marking are, however, the dual forms starting in *nci-* instead of *-ci*, the plural forms starting in *si-* instead of *-i* and of course the complete zero marking for the third person in the affirmative. No stem could be identified in

these forms; it probably had little phonological weight and got lost.²⁷ A further idiosyncrasy of all present forms (affirmative and negative) is that they end in /n/, which does not seem to carry any semantic load. It is unlikely that this is a stem, because the person markers usually come as suffixes; at least one would have to explain why the order of stem and suffixes is reversed here. Note that, due to the absence of specific markers, the dual forms of the third person and the first person inclusive are identical.

Negation in the present forms is marked by the prefix *me(N)-*, which is also found as negation marker in nonfinite forms like infinitives and converbs. In the past, negation is marked as in the regular verbal inflection, by the combinations of prefix and suffix *N-...-n* or *N-...-nin*. The nasal copying known from the verbal inflection is found in the copular inflection too, with the same constraints applying as described in §3.5.8. The third person singular nonpast form *menna* also functions as interjection ‘No’.

²⁷The development of identificational or equational copulas out of inflectional material is not unknown in Tibeto-Burman; it is also found e.g. in Northern Chin (DeLancey 2011b: 9).

	NPST.AFF	NPST.NEG	PST.I.AFF	PST.I.NEG	PST.II.AFF	PST.II.NEG
1SG	ŋan	meʔ-ŋan	sa-ŋ=na	n-sa-ŋa-n=na	sa-ya-ŋ=na	n-sa-ya-ŋa-n=na
1DU.EXCL	ncinjan	me-ncinjan	sa-ŋ-ci-ŋ=ha	n-sa-n-ci-ŋa-n=na	sa-ya-ŋ-ci-ŋ=ha	n-sa-ya-n-ci-ŋa-n=na
1PL.EXCL	sinjan	me-sinjan	s-i-ŋ=ha	n-s-i-ŋa-n=ha	sa-i-ŋa-n=ha	n-sa-i-ŋa-n=ha
1DU.INCL	ncin	me-ncin	sa-ci=ha	n-sa-n-ci-n=ha	sa-ya-ci=ha	n-sa-ya-n-cin=ha
1PL.INCL	sin	me-sin	s-i=ha	n-s-i-n=ha	sa-i=ha	n-sa-i-n=ha
2SG	kan	me-kan	sa-ga=na	n-sa-ga-n=na	sa-ya-ga=na	n-sa-ya-gan=na
2DU	ncigan	me-cigan	sa-cig=ha	n-sa-n-ci-ga-n=ha	sa-ya-ci-g=ha	n-sa-ya-n-ci-gan=ha
2PL	sigan	me-sigan	s-i-g=ha	n-s-i-ga-n=ha	sa-i-g=ha	n-sa-i-ga-n=ha
3SG		men	sa=na	n-sa-n=na	sa-ya=na	n-sa-ya-n=na
3DU		mencin	sa-ci=ha	n-sa-n-ci-n=ha	sa-ya-ci=ha	n-sa-ya-n-ci-n=ha
3PL		men(=ha=ci)	n-sa=ha=ci	n-sa-nin=ha	n-sa-ya=ha	n-sa-ya-nin=ha

Table 8.28: Person and tense/aspect inflection of the identificational copula

The person marking in the past tense forms is more regular than in the nonpast, since they have a stem to which the regular person markers can attach. The identificational copula distinguishes five inflectional series in the past tenses. There is the Simple Past ('Past I'), expressed by the past stem *sa* and the regular person inflection (*sa* is reduced to *s* when followed by *-i* for 1/2PL). This past stem can also host the past marker *-a ~ -ya*, and it is not clear yet what the semantic effect of this, hence this category is simply called 'Past II' here (see Table 8.28). Furthermore there is the perfect (not included in the table), which is marked regularly by the already familiar perfect marker *-ma ~ -mi* preceding the person inflection of the Past II forms (e.g. *sayamaŋna* for first person singular). What is different from the regular intransitive marking is the occurrence of the negation marker *-nin* in third person negated past forms, which is otherwise only found in the transitive paradigms. The fourth and fifth inflectional series are only attested in negated forms; they are discussed below.

The Simple Past forms are the most frequently used tense forms of the identificational copula in the current corpus. Unfortunately, the analysis of the past tenses cannot be corroborated by much natural data, so that the precise answer to the question of their application has to be left for a later stage (but see (50) for a few examples).

- (50) a. *uŋci=go miyaŋ mam=ha n-sa*
 3NSG=TOP a_little big=NMLZ.NSG 3PL-COP.PST
 'They were a bit older.'
- b. *uŋ tuknuŋ luŋmatuktuk=na sa-ya-ma*
 3SG completely loving=NMLZ.SG COP.PST[3SG]-PST-PRF
 'She was a very loving person.'²⁸ [01_leg_07.061]
- c. *pyak encho ka miya sa-ya-ŋ=niŋa*
 much long_ago 1SG small COP.PST-PST-1SG=CTMP
 'Long ago, when I was a child, ...' [42_leg_10.002]

A further negated inflectional paradigm can be found for present (only 1/2PL forms are attested, see (51)) and for Past I and II (see Table 8.29). These forms are marked by attaching a prefix *ta- ~ ti-* to the copular stem, to the right of the negation prefix, which is *me-*, (not *N-* as in the past forms shown above). This is the only instance of a second prefixal slot in the whole verbal inflection.²⁹ Corre-

²⁸This example also shows the narrative function of the Perfect tense; it frequently occurs in stories (see §8.4.2.2).

²⁹A further puzzle is that the attested nonpast forms are identical to the corresponding forms in Past I, but it can be explained by the absence of a dedicated nonpast marker and the deletion of PST *-a* due to 1/2PL *-i*.

sponding affirmative forms are not attested. Superficially, the semantics of these forms are equivalent to the forms shown in Table 8.28, see (51a); so the tentative conclusion is that this prefix only has emphatic function.

- (51) a. *kanij hironi me-ti-sijan?*
 1SG bollywood_heroine NEG-EMPH-COP.NPST.1PL
 ‘Aren’t we bollywood heroines?’ (same: *mesijan*)
- b. *elaba=ci=ŋa n-lu-ks-u-ci: nniŋda yakkhaba*
 a_clan=NSG=ERG 3PL.A-tell-PRF-3.P-3NSG.P 2PL Yakkha_person
me-ti-sijan=ha
 NEG-EMPH-COP.NPST.2PL=SG
 ‘The Elabas told them: You are not Yakkhas.’ [39_nrr_08.07]

	NEG.PST.I.EMPH	NEG.PST.II.EMPH
1SG	me-ta-sa-ŋa-n=na	me-ta-sa-ya-ŋa-n=na
1DU.EXCL	me-ta-sa-n-ci-ŋa-n=ha	me-ta-sa-ya-n-ci-ŋa-n=ha
1PL.EXCL	me-ti-s-i-ŋa-n=ha	me-ta-sa-i-ŋa-n=ha
1DU.INCL	me-ta-sa-n-ci=ha	me-ta-sa-ya-n-ci-n=ha
1PL.INCL	me-ti-s-i-n=ha	me-ta-sa-i-n=ha
2SG	me-ta-sa-ga-n=na	me-ta-sa-ya-ga-n=na
2DU	me-ta-sa-n-ci-ga-n=ha	me-ta-sa-ya-n-ci-ga-n=ha
2PL	me-ti-s-i-ga-n=ha	me-ta-sa-i-ga-n=ha
3SG	me-ta-sa-n=na	me-ta-sa-ya-n=na
3DU	me-ta-sa-n-ci-n=ha	me-ta-sa-ya-n-ci-n=ha
3PL	me-ta-sa-nin=ha	me-ta-sa-ya-nin=ha

Table 8.29: Alternative past and negation inflection of the copula

8.7.2 The existential verb *wama*

The verb *wama* is a verb of being or existence, and perhaps the only verb that has a purely static temporal profile, i.e. without containing the notion of the inception of the state (exactly as in Belhare, see Bickel (1996: 212)). It may translate as ‘be, exist, live, stay’ and is found in copular frames expressing location, existence and also in clauses with adjectival predicates (see (52) for examples). In many other Kiranti languages a cognate of the verb *yujma* ‘sit, live, exist’ has this function.

In Yakkha, *yunma* is restricted to the meaning ‘sit (down)’. A paradigm of various tense inflections of *wama* is provided in Table 8.30 on page 263.

- (52) a. *uhingilik weʔ=na*
 alive be[NPST;3SG]=NMLZ.SG
 ‘She is alive.’
 b. *n-na n-nuncha*
 2SG.POSS-elder_sister 2SG.POSS-younger_sibling
ŋ-waiʔ=ya=ciʔ
 3PL-exist[NPST]=NMLZ.NSG=NSG
 ‘Do you have sisters?’

The stem *wa* of this verb has several allomorphs. There are the nonpast allomorphs *wai(?)* ~ *weʔ*, which are historically the result of a contraction of the stem and the nonpast marker (/wa-meʔ/). Such processes are also found in other verbs; take e.g. the underlying form /leŋdimeʔna/ which is also found as [leŋdeʔna] in fast speech. In the verb of existence, however, this contraction is lexicalized, since it may also host the nonpast marker. Marked by nonpast *-meʔ*, these forms have continuative or a future semantics, extending the state beyond the time of the utterance context, as shown in (53). Furthermore, the verb has an allomorph *wai* (bisyllabic) in the past forms.

- (53) *nna tas-wa=na=be yog-a-n-u-m, nna=be,*
 that reach-NPST=NMLZ.SG=LOC search-IMP-PL-3.P-2PL.A that=LOC
nniŋ=ga mamu wa-meʔ=na
 2PL.POSS=GEN girl be[3SG]-NPST=SG
 ‘Search there where it lands (a clew of thread), your girl will (still) be there.’
 [22_nrr_05.095]

Since with the absence of *-meʔ* in the nonpast the 1/2.PL forms (marked by the suffix *-i*) became identical in the present and in the simple past, they have received further marking: instead of the expected *wa-i=ha* for 1PL.INCL.NPST or *wa-i-g=ha* for 2PL.NPST one finds *wa-i-niti-ha* and *wa-i-niti-gha*, respectively. The marker *-niti* is not attested elsewhere in the verbal morphology.³⁰

In the negation paradigm, forms with a suppletive stem *ma* exist alternatively to forms with *wai*, throughout all tense forms (*mai* in the plupast, in analogy to affirmative *wai*). The most commonly heard form is the third person *manna/manhaci*,

³⁰There is a second person plural suffix *-ni* in the imperative paradigm, and we have seen above that there is a prefix *ta-* ~ *ti-* in some forms of the past inflection of the identificational copula. It is possible that there is an etymological link between *-niti* and these affixes, but any claims in this regard would be highly speculative.

stating the absence of something (see (54a)).³¹ As in the affirmative forms, attaching the nonpast marker results in a future reading (see (54c)). I have one contrastive example suggesting that *ma*-forms are not interchangeable with *wa* (and its allomorphs), and thus that *ma* is not simply an allomorph of *wa* (compare (54b) and (c)). Unfortunately the current data set is not sufficient to determine the exact difference between these two negated stems. The *ma*-series is more frequent in my Yakkha corpus.

- (54) a. *sambakhi=ci ma-n=ha=ci*
 potato=NSG exist.NEG-NEG=NMLZ.NSG=NSG
 'There are no potatoes.'
- b. *ŋ-wa-meʔ-ŋa-n*
 NEG-stay-NPST-1SG-NEG
 'I will not stay.'
- c. *nda ta-me-ka=nin ka m-ma-me-ŋa-n*
 2SG come-NPST-2=CTMP 1SG NEG-be-NPST-1SG-NEG
 'I will not be here when you come.'

In addition to the nonpast inflections, three past series were found, formed similarly to the regular verbal inflection: a simple past formed by *-a*, a perfect formed by adding *-ma* ~ *-mi* to the simple past, and another past tense ('Past II', yet unanalyzed) formed by adding *-sa* ~ *-si* to the simple past forms. This Past II has no parallel forms in the regular verbal inflectional paradigm. The simple past again seems to be the default choice (see (55a)), and the other two are more specific. The perfect is found in narratives, relating to events that have some relevance for the story, i.e. in sentences setting the stage for further information to come (see (55b) and (55c), from the beginning of a narrative and from childhood memories, respectively). The Past II forms refer to events that preceded another salient event in the past. In (55d), the speaker refers to the time when people came to propose a marriage to her daughter, but the conversation takes place already after the wedding, which was the main topic of the conversation.

³¹Since the other person forms show an initial geminate, I assume that the third person underwent formal reduction due to frequent use. The form *ma(n)* is also the base for postpositions and conjunctions. Combined with the adverbial clause linkage marker *=nin* it has developed into the privative case *maʔnin* 'without', and combined with the clause linkage marker *=hoŋ* it yields the clause-initial conjunction *manhoŋ* 'otherwise'.

- (55) a. *ηkha?niη eko paη=ca m-ma-ya-n=niηa*
 that_time one house=ADD NEG-exist[3SG]-PST-NEG=CTMP
tumhaη=ηa paη cog-uks-u
 Tumhang=ERG house make-PRF-3.P
 ‘Back then, when there was not a single house, Tumhang has made a house.’ [27_nrr_06.038]
- b. *uηci=nun pyak yaη m-ma-ya-ma-n*
 3NSG=COM much money NEG-exist[3SG]-PST-PRF-NEG
 ‘They did not have much money.’ [01_leg_07.304]
- c. *bunga-bic=pe wa-i-mi-η*
 Bunga-beach=LOC live-1PL-PRF-EXCL
 ‘We lived at Bunga Beach (a place in Singapore).’ [13_cvs_02.062]
- d. *ηjiηda m-mai-sa-n-ci-ga-n=ha*
 2DU NEG-exist-PST-NEG-DU-2-NEG=NSG
 ‘The two of you had not been here (when they came).’ [36_cvs_06.306]

Subjunctive forms can be found as well, both in the Nonpast Subjunctive (56a), e.g. for hortatives, and in the Past Subjunctive (56b), e.g. for irrealis clauses. The Past Subjunctive is identical to the simple past. Table 8.30 shows the inflections, with a few forms marked by ‘(?)’ being reconstructed, but not attested.

- (56) a. *kaniη wa-i*
 1PL be-1PL[SBJV]
 ‘Let us live/stay (here).’
- b. *a-ma=nun a-na=ηa*
 1SG.POSS-mother=COM 1SG.POSS-eZ=ERG
y-yog-a-n=niη=bi ka hensan
 NEG-search-SBJV-NEG=CTMP=IRR 1SG nowadays
η-wa-ya-ηa-n=bi
 NEG-exist-SBJV-1SG-NEG=IRR
 ‘If my mother and sister had not looked (for me), I would not be alive now.’ [42_leg_10.052]

	NPST.AFF	NPST.NEG	PST.AFF	PST.NEG	PST.II.AFF	PST.II.NEG
1SG	waiʔ-ŋa=na	ŋ-waiʔ-ŋa-n=na m-ma-ŋa-n=na	wa-ya-ŋ=na	ŋ-wa-ya-ŋa-n=na m-ma-ya-ŋa-n=na	wai-sa-ŋ=na	ŋ-wai-sa-ŋa-n=na m-mai-sa-ŋa-n=na
1DU.EXCL	wai-ŋ-ci-ŋ=ha	ŋ-wai-n-ci-ŋa-n=ha m-ma-n-ci-ŋa-n=ha	wa-ya-ŋ-ci-ŋ=ha	ŋ-wa-ya-n-ci-ŋa-n=ha m-ma-ya-n-ci-ŋa-n=ha	wai-sa-ŋ-ci-ŋ=ha	ŋ-wai-sa-n-ci-ŋa-n=ha m-mai-sa-n-ci-ŋa-n=ha
1PL.EXCL	wai-niti-ŋ=ha	ŋ-wai-niti-ŋa-n=ha (?) m-ma-i-ŋa-n=ha	wa-i-ŋha	ŋ-wa-i-ŋa-n=ha m-ma-i-ŋa-n=ha	wa-i-si-ŋ=ha	ŋ-wa-i-si-ŋa-n=ha m-ma-i-si-ŋa-n=ha
1DU.INCL	wai-ci=ha	ŋ-wai-n-ci-n=ha m-ma-n-ci-n=ha	wa-ya-ci=ha	ŋ-wa-ya-n-ci-n=ha m-ma-ya-n-ci-n=ha	wai-sa-ci=ha	ŋ-wai-sa-n-ci-n=ha m-mai-sa-n-ci-n=ha
1PL.INCL	wai-niti=ya	ŋ-wai-niti-n=ha (?) m-ma-i-n=ha	wa-i=ya	ŋ-wa-i-n=ha m-ma-i-n=ha (?)	wai-s-i=ha	ŋ-wa-i-si-n=ha m-mai-s-i-n=ha
2SG	wai-ka=na	ŋ-wai-ka-n=na m-ma-ga-n=na	wa-ya-ga=na	ŋ-wa-ya-ga-n=na m-ma-ya-ga-n=na	wai-sa-ga=na	ŋ-wai-sa-ga-n=na m-mai-sa-ga-n=na
2DU	wai-ci-g=ha	ŋ-wai-n-ci-ga-n=ha m-mai-n-ci-ga-n=ha	wa-ya-ci-g=ha	ŋ-wa-ya-n-ci-ga-n=ha m-ma-ya-n-ci-ga-n=ha	wai-sa-ci-g=ha	ŋ-wai-sa-n-ci-ga-n=ha m-mai-sa-n-ci-ga-n=ha
2PL	wai-niti-g=ha	ŋ-wai-niti-ga-n=ha (?) m-ma-i-ga-n=ha	wa-i-g=ha	ŋ-wa-i-ga-n=ha m-ma-i-ga-n=ha (?)	wai-s-i-g=ha	ŋ-wai-s-i-ga-n=ha m-mai-s-i-ga-n=ha
3SG	waiʔ=na	ŋ-wai-n=na m-ma-n=na	wa-ya=na	ŋ-wa-ya-n=na m-ma-ya-n=na	wai-sa=na	ŋ-wai-sa-n=na m-mai-sa-n=na
3DU	wai-ci=ha	ŋ-wai-n-ci-n=ha m-ma-n-ci-n=ha	wa-ya-ci=ha	ŋ-wa-ya-n-ci-n=ha m-ma-ya-n-ci-n=ha	wai-sa-ci=ha	ŋ-wai-sa-n-ci-n=ha m-mai-sa-n-ci-n=ha
3PL	ŋ-waiʔ=ha=ci	ŋ-wai-nin=ha m-ma-nin=ha	ŋ-wa-ya-ci	ŋ-wa-ya-n=ha=ci m-ma-ya-n=ha=ci	ŋ-wai-s=ha=ci	ŋ-wai-sa-n=ha=ci m-mai-sa-nin=ha

Table 8.30: Person and tense/aspect inflection of *wama* ‘be, exist, live’

(57) a. *khic-a* *cog-u*
 press-NATIV do-3.P[IMP]
 'Record it!'

b. *i=ha=ca* *im-ma* *por-a* *n-joŋ-me-ŋa-n*
 what=NMLZ.NC=ADD buy-INF have_to-NATIV NEG-do-NPST-1SG-NEG
 'I do not have to buy anything.'
[28 cvs 04.187]

(58) a. *phuama=ŋa=ca* *cek-les-wa,* *hau!*
 last_born_girl=ERG=ADD speak-know-NPST[3A;3.P] EXCLA
 ‘Phuama also knows how to speak, ha!’ [36_cvs_06.503]

b. *phen-les-wa-m-ci-m-ŋa,*
 plough-know-NPST-1PL.A-3NSG.P-1PL.A-EXCL
 ‘We know how to plough (with oxen).’ [28 cvs 04.152]

8.9 Non-finite forms

The infinitive occurs in infinitival complement constructions and in the deontic construction (all discussed in Chapter 15). In the latter, it allows for some further marking such as negation by *men-*, the nominalizing clitics =*na* and =*ha*, and the nonsingular marker =*ci* to indicate nonsingular objects (cf. §15.1.7.) From a functional perspective, the infinitive with a deontic reading is finite, as it can stand independently as an utterance and does not rely upon another syntactic unit.

Occasionally, the infinitive is also found in infinitival adverbial clauses and in adverbial clauses that usually contain inflected verbs, i.e. clauses marked in =*niŋ(a)* (cotemporal events), =*hoŋ* (sequential events) and *bhoŋ* (conditional clauses). This is the case when the reference of the arguments is not specified, i.e. in general statements, best rendered with ‘When/If one does X, ...’ (see Chapter 14).

Note that there is a special negation marker *me(N-)* which is only found in nonfinite forms and in the inflection of the copula, i.e. in infinitives, the nominalization in *-khuba* and the negative converb. Except for this negation marker and the clitics on the deontic infinitives, no tense/aspect, mood or person marking is found on non-finite forms.

9 Noun-Verb Predicates

This chapter deals with idiomatic combinations of a noun and a verb. These predicates occupy a position somewhat between word and phrase. Lexically, a Noun-Verb Predicate always constitutes one word, as its meaning is not directly predictable from its individual components (with varying degrees of metaphoricity and abstraction). But since the nouns enjoy considerable morphosyntactic freedom, speaking of noun incorporation here would be misleading. About 80 Noun-Verb Predicates are attested so far, with roughly two thirds referring to experiential events.

There are two main morphologically defined patterns for Noun-Verb Predicates. In the first pattern (the Simple Noun-Verb Predicates) the predicate consists of a noun and a verb that are juxtaposed in N-V order, such as *lam phakma* ‘open way, give turn’ or *tukkhū?wa lamma* ‘doze off’ (discussed in §9.1).¹ The second pattern (the Experiencer-as-Possessor Construction) is semantically more restricted and also morphologically different. It expresses experiential events, with the experiencer coded as possessor, as for instance *hakamba ke?ma* ‘yawn’ (lit.: (someone’s) yawn to come up). This pattern is discussed in §9.2.

9.1 Simple Noun-Verb Predicates

Most of the Simple Noun-Verb Predicates are relatively transparent but fixed collocations. They denote events from the semantic domains of natural phenomena, e.g. *nam phemma* ‘shine [sun]’, *taṅkhyāṅ kama* ‘thunder’ (lit. ‘sky - call’), some culturally significant actions like *kei lakma* ‘dance the drum dance’ and also verbs that refer to experiential events and bodily functions, such as *whaṅma tukma* ‘feel hot’ (lit. ‘sweat/heat - hurt’). Experiential concepts are, however, more frequently expressed by the Experiencer-as-Possessor Construction.²

¹The same pattern is also used as a strategy to incorporate Nepali nouns into the Yakkha morphology, with a very small class of light verbs, namely *cokma* ‘make’, *wama* ‘exist, be’ and *tokma* ‘get’, cf. §11.1.11.

²There is no clear explanation why some verbs expressing bodily functions, like *chipma chima* ‘urinate’ belong to the Simple Noun-Verb Predicates, while most of them belong to the

Table 9.1 provides some examples of Simple Noun-Verb Predicates. Lexemes in square brackets were not found as independent words beyond their usage in these compounds. Some verbs, like weather verbs (like *nam phemma* ‘shine [sun]’ and *wasik tama* ‘rain’) and some experiential predicates (like *wepma sima* ‘be thirsty’ and *whaŋma tukma* ‘feel hot’), for instance, do not allow the expression of additional arguments; their valency is zero (under the assumption that the nouns belonging to the predicates are different from full-fledged arguments). If overt arguments are possible, they behave like the arguments of standard intransitive or standard transitive verbs. They trigger agreement on the verb, and they take nominative or ergative case marking (see §11.1).

The predicates vary as to whether the noun or the verb carries the semantic weight of the predicate, or whether both parts play an equal role in establishing the meaning of the construction. In verbs like *wepma sima* ‘be thirsty’ (lit. ‘thirst - die’) or *wasik tama* ‘rain’ (lit. ‘rain - come’), the noun carries the semantic weight,³ while in verbs like *kei lakma* ‘drum - dance’, *cabhak lakma* ‘paddy - dance’, the nouns merely modify the verbal meaning. The nouns may stand in various thematic relations to the verb: in *wepma sima* ‘be thirsty’, the noun has the role of an effector, in predicates like *hi?wa phemma* ‘wind - blow’ it is closer to an agent role. In *saya pokma* ‘head-soul - raise’,⁴ it is a patient.

There are also a few constructions in which the noun is etymologically related to the verb, such as *chipma chima* ‘urinate’, *sokma soma* ‘breathe’ and *phi?ma phima* ‘fart’ (cognate object constructions). The nouns in these constructions do not contribute to the overall meaning of the predicate.⁵

Concerning stress assignment and the voicing rule (see §3.4 and §3.5), noun and verb do not constitute a unit. Both the noun and the verb carry equal stress, even if the noun is monosyllabic and this results in adjacent stress, as in *‘sak.tuk.ma*. As for voicing, if the initial stop of the verbal stem is preceded by a nasal or a vowel, it remains voiceless, which stands in contrast to the verb-verb predicates (see Chapter 10), which are more tightly fused also in other respects. Compare

Experiencer-as-Possessor frame. Some verbs show synonymy across these two classes, e.g. *whaŋma lomma* (Experiencer-as-Possessor) and *whaŋmaŋa lupma* (Simple N-V), both meaning ‘sweat’.

³This is the reason why noun-verb collocations have also become known as light verb constructions (after Jespersen (1965), who used this term for English collocations like *have a rest*).

⁴‘Raising the head soul’ is a ritual activity undertaken by specialists, for individuals whose physical or psychological well-being is in danger.

⁵Semantically empty nouns are also attested in the Experiencer-as-Possessor construction (cf. below). They are called ‘eidemic’ in Bickel (1995; 1997b); in Matisoff (1986) they are called ‘morphanic’ (morpheme orphans).

PREDICATE	GLOSS	LITERAL TRANSLATION
<i>cabhak lakma</i>	‘do the paddy dance’	(paddy – dance)
<i>chakma pokma</i>	‘troubled times to occur’	(hardship – strike)
<i>chipma chima</i>	‘urinate’	(urine – urinate)
<i>cun tukma</i>	‘feel cold’	(cold – hurt)
<i>himbulumma cama</i>	‘swing’	(swing – eat)
<i>hi?wa phemma</i>	‘wind blow’	(wind – be activated [weather])
<i>hongga phanma</i>	‘crawl’	([STEM] – [STEM])
<i>kei lakma</i>	‘do the drum dance’	(drum – dance)
<i>lan phakma</i>	‘make steps’	(foot/leg – apply)
<i>lam phakma</i>	‘open way, give turn’	(way – apply/build)
<i>lambu lembi?ma</i>	‘let pass’	(way – let-give)
<i>muk phakma</i>	‘help, serve’	(hand – apply)
<i>nam ama</i>	‘sit around all day’	(sun – make set)
<i>nam phemma</i>	‘sun shine’	(sun – be activated [weather])
<i>phi?ma phima</i>	‘fart’	(fart – fart)
<i>sak tukma</i>	‘be hungry’	(hunger – hurt)
<i>setni ke?ma</i>	‘stay awake all night’	(night – bring up)
<i>sokma soma</i>	‘breathe’	(breath – breathe)
<i>susuwa lapma</i>	‘whistle’	([whistle] – call)
<i>tukkhu?wa lapma</i> (~ lamma)	‘doze off’	([STEM] – call)
<i>tan?khyan kama</i>	‘thunder’	(sky – call)
<i>uwa cama</i>	‘kiss’	(nectar/liquid – eat)
<i>wa lekma</i>	‘rinse’	(water – turn)
<i>wasik tama</i>	‘rain’	(rain – come)
<i>wepma sima</i>	‘be thirsty’	(thirst – die)
<i>wepma tukma</i>	‘by thirsty’	(thirst – hurt)
<i>wha pokma</i>	‘septic wounds to occur’	(septic wound – infest)
<i>whanma tukma</i>	‘feel hot’	(heat/sweat – hurt)
<i>yak yakma</i>	‘stay over night’	([STEM] – stay over night)
<i>yan?chan chi?ma</i>	‘regret’	([STEM] – get conscious)
<i>chemha=?a sima</i>	‘be intoxicated, be drunken’	(be killed by alcohol)
<i>cun=?a sima</i>	‘freeze’	(die of cold)
<i>sak=?a sima</i>	‘be hungry’	(die of hunger)
<i>whanma=?a lupma</i>	‘sweat’	(heat/sweat – disperse/strew)

Table 9.1: Simple Noun-Verb Predicates

for instance *cun tukma* ‘be cold’ (N+V, ‘cold - hurt’) with *ham-bi?ma* ‘distribute among people’ (V+V, ‘distribute-give’).

There are different degrees of morphological fusion of noun and verb, and some nouns may undergo operations that are not expected if they were incorporated, for instance. They can be topicalized by means of the particle *=ko* (see (1a)), and two nouns selecting the same light verb may also be coordinated (see (1b)). Such examples are rare, however (note that (1a) is from a collection of proverbs and sayings), and in most cases the noun and verb occur without any intervening material. The noun may also be modified independently, as the spontaneously uttered sentence in (1c) shows. Typically, the predicates are modified as a whole, by adverbs, but here one can see that the noun may also be modified independently by adnominal modifiers. The modifying phrase is marked by a genitive, which is never found on adverbial modifiers.

- (1) a. *makkai=ga cama, chi?wa=ga khyu, cabhak=ko*
 maize=GEN cooked_grains nettle=GEN curry_sauce paddy=TOP
lak-ma, a-ŋoŋma=jyu
 dance-INF 1SG.POSS-female_in-law=HON
 ‘Corn mash, nettle sauce, let us dance the paddy dance, dear sister-in-law.’
 [12_pvb_01.008]
- b. *kei=nun cabhak lak-san ucun n-joŋ-me*
 drum=COM paddy dance-SIM nice 3PL-do-NPST
 ‘They have a good time, dancing the drum dance and the paddy dance.’⁶
 [01_leg_07.142]
- c. *a-phok tuk=nun=ga sak tug-a=na*
 1SG.POSS-stomach hurt=COM=GEN hunger hurt-PST[3SG]=NMLZ.SG
 ‘I am starving.’ (Lit.: ‘A hunger struck (me) that makes my stomach ache.’)

Some of the nouns may even trigger agreement on the verb, something which is also unexpected from the traditional definition of compounds, that entails that compounds are lexically one unit and thus morphologically opaque (see e.g. Fabb 2001). Example (2a) and (2b) are different in this respect:⁷ while predicates that contain the verb *tukma* ‘hurt’ are invariably inflected for third person singular (in other words, the noun *whaŋma* triggers agreement; overt arguments are not

⁶An interpretation ‘dancing the paddy dance with drums’ can be ruled out here, because the drums are not played in the paddy dance.

⁷Many Yakkha verbs have inchoative-stative Aktionsart, so that the past inflection refers to a state that still holds at the time of speaking.

possible), predicates containing *sima* ‘die’ show agreement with the overtly expressed (experiencer) subject in the unmarked nominative (2b).⁸ Some meanings can be expressed by either frame (compare (2b) and (2c)), but this not a regular and productive alternation.

- (2) a. *whaŋma tug-a=na*
 sweat hurt[3SG]-PST=NMLZ.SG
 ‘I/you/he/she/it/we/they feel(s) hot.’
 b. *ka wepma sy-a-ŋ=na*
 1SG thirst die-PST-1SG=NMLZ.SG
 ‘I am thirsty.’
 c. *wepma tug-a=na*
 thirst hurt[3SG]-PST=NMLZ.SG
 ‘I/you/he/she/it/we/they is/are thirsty.’

In (2b), if *wepma* were a regular verbal argument, an instrumental case would be expected, since it is an effector with respect to the verbal meaning. And indeed, some noun-verb predicates require an instrumental or an ergative case on the noun (see (3)).⁹

- (3) a. *(chemha=ŋa) sis-a-ga=na=i?*
 (liquor=ERG) kill-PST-2.P=NMLZ.SG=Q
 ‘Are you drunk?’
 b. *sak=ŋa n-sy-a-ma-ŋa-n=na*
 hunger=INS NEG-die-PST-PRF-1SG-NEG=NMLZ.SG
 ‘I am not hungry.’

Some verbs participating in Noun-Verb Predicates have undergone semantic changes. Note that in (3) the nouns *sak* and *chemha* do not have the same status with regard to establishing the semantics of the whole predicate. The verbal stem *sis* ‘kill’ in (a) has already acquired a metaphorical meaning of ‘be drunk, be intoxicated’ (with the experiencer coded like a standard object). The noun is frequently omitted in natural speech, and if all arguments are overt, the experiencer precedes the stimulus, like in Experiencer-as-Object constructions (see (4) and Chapter 11.1.6).¹⁰ In contrast to this, the stem *si* in (b) is not polysemous; the noun is required to establish the meaning of the construction.

⁸The same argument realization is found in the Belhare cognates of these two verbs (Bickel 1997b). For the details of argument realization in Yakkha see Chapter 11.

⁹Yakkha has an instrumental/ergative syncretism. Therefore, in intransitive predicates *=ŋa* is interpreted as instrumental; in transitive predicates it is interpreted as ergative.

¹⁰The same development has taken place in Belhare (Bickel 1997b: 151).

- (4) *ka macchi=ŋa haŋd-a-ŋ=na*
 1SG pickles/chili=ERG taste_hot-PST-1SG.P=NMLZ.SG
 ‘The pickles/chili tasted hot to me.’

Despite a certain degree of morphosyntactic freedom, the nouns are not full-fledged arguments. It is not possible to demote or promote the noun via transitivity operations such as the causative or the passive, or to extract it from the noun-verb complex via relativization (see ungrammatical (5)).

- (5) a. **lakt-i=ha cabhak*
 dance-1PL[PST]=NMLZ.NSG paddy
 Intended: ‘the paddy (dance) that we danced’
 b. **tug-a=ha sak*
 hurt[3SG]-PST=NMLZ.NSG hunger
 Intended: ‘the hunger that was perceivable’

To sum up, Simple Noun-Verb Predicates have behave like one word with respect to lexical semantics, adjacency (in the overwhelming majority of examples), extraction possibilities for the noun (i.e. the lack thereof), and like two words as far as clitic placement (including case), coordination, modifiability, stress and voicing are concerned. Thus, they are best understood as lexicalized phrases.

9.2 Experiencer-as-Possessor Constructions

Following a general tendency of languages of South and Southeast Asia, Yakkha has a dedicated construction for the expression of experiential concepts, including emotional and cognitive processes, bodily functions, but also human character traits and their moral evaluation. In Yakkha, such concepts are expressed by predicates that are built from a noun and a verb, whereby the noun is perceived as the location of this concept, i.e. the ‘arena’ where a physiological or psychological experience unfolds (Matisoff 1986: 8). These nouns are henceforth referred to as psycho-nouns, but apart from referring to emotions and sensations, they can also refer to body parts and excreted substances. Example (6) illustrates the basic pattern:

- (6) *u-niŋwa tug-a=na*
 3SG.POSS-mind hurt[3SG]-PST=NMLZ.SG
 ‘He was/became sad.’

The verbs come from a rather small class; they denote the manner in which the experiencer is affected by the event, many of them referring to motion events. The experiencer is morphologically treated like the possessor of the psycho-noun; it is indexed by possessive prefixes. The expression of experiential concepts by means of a possessive metaphor is a characteristic and robust feature of Kiranti languages (cf. the ‘possessive of experience’ in Bickel (1997b), ‘emotive predicates’ in Ebert (1994: 72ff), and ‘body part emotion verbs’ in Doornenbal (2009: 219ff)), but this is also found beyond Kiranti in South-East Asian languages, including Hmong-Mien, Mon-Khmer and Tai-Kadai languages (Matisoff 1986, Bickel 2004b). In other Tibeto-Burman languages, experiencers are more commonly marked by a dative, an option which is not available (at least not by native morphology) in most Kiranti languages.

Experiencer-as-Possessor Constructions are not the only option to express experiential events. The crosslinguistic variation that can be found within experiential predicates is also reflected in the language-internal variation of Yakkha. We have seen Simple Noun-Verb predicates in §9.1 above. Other possibilities are simple verbal stems like *haŋma* ‘taste hot/have a spicy sensation’ (treating the experiencer like a standard P argument), *eʔma* ‘perceive, like, have impression, have opinion’ (treating it like a standard A argument) and the historically complex verb *kisiʔma* ‘be afraid’ (treating it like a standard S argument). Verbs composed of several verbal stems may also encode experiential notions, such as *yoŋdiʔma* ‘be scared’ (shake-give). The possessive experiencer verbs however constitute the biggest class of experiential predicates. About fifty verbs have been found so far (cf. Tables 9.2 and 9.3), but probably this list is far from exhaustive.

This section is organized as follows: §9.2.1 introduces the various possibilities of argument realization within the Experiencer-as-Possessor frame. Section 9.2.2 looks at the principles behind the semantic composition of possessive experiential predicates. Section 9.2.3 deals with the morphosyntax of these predicates and with the behavioral properties of experiencers as non-canonically marked S or A arguments.

9.2.1 Subframes of argument realization

A basic distinction can be drawn between predicates of intransitive valency and transitive or labile¹¹ valency (see Tables 9.2 and 9.3 at the end of the section).¹²

¹¹See also §11.2.1.

¹²Stems in square brackets in the tables were not found as independent words beyond their use in these collocations.

Within this basic distinction, the verbs can be further divided into various sub-frames of argument realization. In all classes, the experiencer is marked as possessor of the psycho-noun, i.e., as possessor of a sensation or an affected body part.

In the class of intransitive verbs, the psycho-noun triggers third person marking on the verb, as in (6) and (7). Intransitive verbs usually do not have an overt noun phrase referring to the experiencer; only the possessive prefix identifies the reference of the experiencer. When the experiencer has special pragmatic status, and is thus marked by a discourse particle, it can be overtly expressed, either in the nominative or in the genitive (compare example (16c) and (17d) below). As this is so rare, the reasons for this alternation are not clear yet.

In some cases, the noun is conceptualized as nonsingular, triggering the according number markers on the verb as well (see (7a)). One verb in this group is special in consisting of two nouns and a verb. Both nouns take the possessive prefix (see (7b)). Their respective full forms would be *niŋwa* and *lawā*. It is not uncommon that the nouns get reduced to one syllable in Noun-Verb Predicates.

- (7) a. *a-pomma=ci* *ŋ-gy-a=ha=ci*
 1SG.POSS-laziness=NSG 3PL-come_up-PST=NMLZ.NSG=NSG
 ‘I feel lazy.’
- b. *a-niŋ* *a-la* *sy-a=na*
 1SG.POSS-mind 1SG.POSS-spirit die[3SG]-PST=NMLZ.SG
 ‘I am fed up/annoyed.’

The transitive group can be divided into five classes (cf. Table 9.3 on page 279). In all classes, the experiencer is coded as the possessor of the psycho-noun (via possessive prefixes), and hence this does not need to be explicitly stated in the schematic representation of argument realization in the table.

In Class (a) the experiencer is realized like a standard transitive subject (in addition to being indexed by possessive prefixes): it triggers transitive subject agreement and has ergative case marking (only overtly marked if it has third person reference and is overt, which is rare). The stimulus is unmarked and triggers object agreement (see (8a)).

Class (b) differs from Class (a) in that the psycho-noun triggers object agreement, invariably third person, and in some cases third person plural (see (8b)). No stimulus is expressed in this class. This class has the highest number of members.

- (8) a. *uŋ=ŋa* *u-ppa* *u-luŋma* *tukt-uks-u=na*
 3SG=ERG 3SG.POSS-father 3SG.POSS-liver pour-PRF-3.P=NMLZ.SG
 ‘He loved his father.’ (lit.: ‘He poured his father his liver.’)

- b. *a-yupma=ci*
 1SG.POSS-sleepiness=NSG
cips-u-η-ci-η=ha
 complete-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
 ‘I am well-rested.’ (lit.: ‘I completed my sleep(s).’)

Predicates of Class (c) show three possibilities of argument realization. One possibility is an unexpected pattern where the stimulus triggers object agreement, while the psycho-noun triggers subject agreement, which leads, oddly enough, to a literal translation ‘my disgust brings up bee larvae’ in (9a). Despite the subject agreement on the verb, the psycho-nouns in this class do not host an ergative case marker, an option that is available, however, for verbs of Class (d). The experiencer is indexed only by the possessive prefix in this frame; overt experiencer arguments were not found. The stimulus can be in the nominative or in the ablative in Class (c), but if it is in the ablative, the verb is blocked from showing object agreement with the stimulus, showing 3>3 agreement instead (see (9b)). The third option of argument realization in Class (c) is identical to Class (a) (cf. the comments in (9a) and (b)). Reasons or conditions for these alternations, for instance in different configurations of the referential properties of the arguments, could not be detected.

- (9) a. *thaηsu=ga u-chya=ci a-chippa*
 bee=GEN 3SG.POSS-child=NSG 1SG.POSS-disgust
ket-wa-ci=ha
 bring_up-NPST-3NSGP=NMLZ.NSG
 ‘I am disgusted by the bee larvae.’
 (same: *thaηsuga ucyaci achipa ketwaηciηha* - (1SG>3PL, Class (a)))
- b. *njiηda=bhaη a-sokma hips-wa=na!*
 2DU=ABL 1SG.POSS-breath whip-NPST[3A>3.P]=NMLZ.SG
 ‘I get fed up by you.’
 (same: *njiηda asokma himme?nencinha!* - 1SG>2DU, Class (a))

In class (d), the psycho-noun also triggers transitive subject agreement, and additionally, it shows ergative marking. The object agreement slot can be filled either by the stimulus or by the experiencer argument (see (10a)).¹³

¹³There are (at least) two concepts, *saya* and *lawa*, that are related to or similar to ‘soul’ in Yakkha and the Kiranti metaphysical world in general. Gaenszle (2000) writes about these two (and other) concepts in Mewahang (also Eastern Kiranti, Upper Arun branch):

The concept of *saya* is understood to be a kind of “vital force” that must be continually renewed (literally: “bought”) by means of various sacrificial rites. [...] The vital

Class (e) is exemplified by (10b). Here, the experiencer is the possessor of a body part which triggers object agreement on the verb. Some verbs may express an effector or stimulus overtly. Others, like *ya limma* ‘taste sweet’ cannot express an overt A argument, despite being inflected transitively (see (10c)). This pattern is reminiscent of the transimpersonal verbs (treated in §11.1.7).

- (10) a. *a-lawa=ŋa* *naʔ-ya-ŋ=na*
 1SG.POSS-spirit=ERG leave-V2.LEAVE-PST-1SG.P=NMLZ.SG
 ‘I was frozen in shock.’ (lit.: ‘My spirit left me.’)
- b. (*cuŋ=ŋa*) *a-muk=ci* *khokt-u-ci=ha*
 (cold=ERG) 1SG.POSS-hand=NSG chop-3.P[PST]-3NSG.P=NMLZ.NSG
 ‘My hands are tingling/freezing (from the cold).’ (lit.: ‘The cold chopped off my hands.’)
- c. *a-ya* *limd-u=na*
 1SG.POSS-mouth taste_sweet-3.P[PST]=NMLZ.SG
 ‘It tastes sweet to me.’

Many of the transitive verbs are attested also with intransitive inflection without further morphological marker of decreased transitivity, i.e. they show a labiality alternation (see (11)).

- (11) a. *n-lok* *khot-a-ŋ-ga=na=i?*
 2SG.POSS-anger scratch-PST-1SG.P-2.A=NMLZ.SG=Q
 ‘Are you angry at me?’
- b. *o-lok* *khot-a=na*
 3SG.POSS-anger scratch[3SG]-PST=NMLZ.SG
 ‘He/she got angry.’

For two verbs, namely *nabhuk-lemnhaŋma* ‘dishonor (self/others)’ (lit.: ‘throw away one’s nose’) and *nabhuk-yuŋma* ‘uphold moral’ (lit.: ‘keep one’s nose’), there is one more constellation of participants, due to their particular semantics. The experiencer can either be identical to the agent or different from it, as the social consequences of morally transgressive behaviour usually affect more people than

force *saya* makes itself felt [...] not only in subjective physical or psychic states but also, and in particular, in the social, economic, religious and political spheres - that is, it finds expression in success, wealth, prestige and power. The third concept, *lawā* (cf. Hardman (1981: 165), Hardman (1990: 299ff.)) is rendered by the Nepali word *sāto* (‘soul’). This is a small, potentially evanescent substance, which is compared to a mosquito, a butterfly or a bee, and which, if it leaves the body for a longer period, results in loss of consciousness and mental illness. The shaman must then undertake to summon it back or retrieve it. (Gaenszle 2000: 119)

just the agent (e.g. illegitimate sexual contacts, an excessive use of swearwords).¹⁴ The morphosyntactic consequences of this are that the verbal agreement and the possessive prefix on the noun may either have the same conominal or two different conominals. Taken literally, one may ‘throw away one’s own nose’ or ‘throw away somebody else’s nose’ (see (12)). Note that due to the possessive argument realization it is possible to have partial coreference, which is impossible in the standard transitive verbal inflection (cf. §8.2).

- (12) a. *u-nabhuk lept-haks-u=na*
 3SG.POSS-nose throw-V2.SEND-3.P[PST]=NMLZ.SG
 ‘She dishonored herself.’
- b. *nda eŋ=ga nabhuk(=ci)*
 2SG[ERG] 1PL.INCL.POSS=GEN nose(=NSG)
lept-haks-u-ci-g=ha!
 throw-V2.SEND-3.P[PST]-3NSG.P-2.A=NMLZ.NSG
 ‘You dishonored us all (including yourself)!’

In §9.1 cognate object constructions like *chipma chima* ‘urinate’ were discussed, where the noun is cognate to the verb and does not actually make a semantic contribution to the predicate. Such developments are also found in the Experiencer-as-Possessor frame. Example (13a) and (13b) are two alternative ways to express the same propositional content. Note the change of person marking to third person in (b). The noun *phok* ‘belly’ is of course not etymologically related to the verb in this case, but it also does not make a semantic contribution. Further examples are *ya limma* ‘mouth-taste sweet’ and *hi ema* ‘stool-defecate’.

- (13) a. *ka khas-a-ŋ=na*
 1SG be_full-PST-1SG=NMLZ.SG
 ‘I am full.’
- b. *a-phok khas-a=na*
 1SG.POSS-belly be_full[3SG]-PST=NMLZ.SG
 ‘I am full.’

All frames of argument realization with examples are provided in Tables 9.2 and 9.3.

¹⁴This concept is particularly related to immoral behavior of women. It is rarely, if ever, heard that a man ‘threw away his nose’.

PREDICATE	GLOSS	LITERAL TRANSLATION
{(S[EXP]-NOM/GEN) V-s[3]}		
{(S[EXP]-NOM/GEN) V-s[3]}		
<i>chipma lomma</i>	‘have to pee’	(urine – come out)
<i>hakamba ke?ma</i>	‘yawn’	(yawn – come up)
<i>hakchiŋba ke?ma</i>	‘sneeze’	(sneeze – come up)
<i>heli lomma</i>	‘bleed’	(blood – come out)
<i>hi lomma</i>	‘have to defecate’	(shit – come out)
<i>laŋ miŋma</i>	‘twist/sprain leg’	(leg – sprain)
<i>laŋ sima</i>	‘have paraesthetic leg’	(leg – die)
<i>mi?wa uŋma</i>	‘cry, shed tears’	(tear – come down)
<i>niŋ-la sima</i>	‘be fed up’	([mind] – [spirit] – die)
<i>niŋwa kaŋma</i>	‘give in, surrender’	(mind – fall)
<i>niŋwa khoŋdi?ma</i>	a) ‘be mentally ill’ b) ‘be disappointed/sad’	(mind – break down)
<i>niŋwa ima</i>	‘feel dizzy’	(mind – revolve)
<i>niŋwa tama</i>	‘be satisfied, content’	(mind – come)
<i>niŋwa tukma</i>	‘be sad, be offended’	(mind – be ill/hurt)
<i>niŋwa wama</i>	‘hope’	(mind – exist)
<i>phok kama</i>	‘be full’	(stomach – be full/saturated)
<i>pomma ke?ma</i>	‘feel lazy’	(laziness – come up)
<i>saklum phemma</i>	‘be frustrated’	(frustration – be activated)
<i>taŋ pokma</i>	‘be arrogant, naughty’	(horn – rise)
<i>yuncama ke?ma</i>	‘have to laugh, chuckle’	(laugh – come up)
<i>yupma yuma</i>	‘be tired’	(sleepiness – be full)

Table 9.2: Intransitive Experiencer-as-Possessor Predicates

9.2 Experiencer-as-Possessor Constructions

PREDICATE	GLOSS	LITERAL TRANSLATION
Class (a): {A[EXP]-ERG P[STIM]-NOM V-a[A].p[P]}		
<i>chik ekma</i>	‘hate’	(hate – make break)
<i>lok kho?ma</i>	‘be angry at’	(anger – scratch)
<i>luŋma kipma</i>	‘be greedy’	(liver – cover tightly)
<i>luŋma tukma</i>	‘love, have compassion’	(liver – pour)
<i>na hemma</i>	‘be jealous’	([jealousy] – [feel])
Class (b): {A[EXP]-ERG P[NOUN]-NOM V-a[A].p[3]}		
<i>hi ema</i>	‘defecate’	(stool-defecate)
<i>iklam saŋma</i>	‘clear throat, harrumph’	(throat – brush)
<i>khaep cimma</i>	‘be satisfied, lose interest’	([interest] – be completed)
<i>mi?wa saŋma</i>	‘mourn (ritually)’	(tear – brush)
<i>nabhuk lemnhaŋma</i>	‘dishonor self/others’	(nose – throw away)
<i>nabhuk yuŋma</i>	‘uphold own/others’ moral’	(nose – keep)
<i>niŋwa chi?ma</i>	‘see reason, get adult about sth.’	(mind – [get conscious])
<i>niŋwa cokma</i>	‘pay attention’	(mind – do)
<i>niŋwa hupma</i>	‘unite minds, decide together’	(mind – tighten, unite)
<i>niŋwa lapma</i>	‘pull oneself together’	(mind – hold)
<i>niŋwa lomma</i>	‘have/apply an idea’	(mind – take out)
<i>niŋwa pi?ma</i>	‘trust deeply’	(mind – give)
<i>niŋwa yuŋma</i>	‘be careful’	(mind – put)
<i>saya pokma</i>	‘raise head soul (ritually)’	(head soul – raise)
<i>semle saŋma</i>	‘clear throat, clear voice’	(voice – brush)
<i>sokma soma</i>	‘breathe’	(breath – breathe)
<i>yupma cimma</i>	‘be well-rested’	(sleepiness – be completed)
Class (c): {P[STIM]-NOM V-a[3].p[P]} ~ {P[STIM]-ABL V-a[3].p[3]} ~ {Class (a)}		
<i>chippa ke?ma</i>	‘be disgusted’	(disgust – bring up)
<i>niŋsaŋ puŋma</i>	‘lose interest, have enough’	([interest] – [lose])
<i>sokma himma</i>	‘be annoyed, be bored’	(breath – whip/flog)
<i>sap thakma</i>	‘like’	([STEM] – send up)
Class (d): {A[NOUN]-ERG P[STIM]-NOM V-a[3].p[A/P]}		
<i>niŋwa=ŋa cama</i>	‘feel sympathetic’	(mind=ERG – eat)
<i>niŋwa=ŋa mudi?ma</i>	‘forget’	(mind=ERG – forget)
<i>hop=ŋa khamma</i>	‘trust’	([STEM]-ERG – chew)
<i>niŋwa=ŋa apma</i>	‘be clever, be witty’	(mind=ERG – bring)
<i>law=ŋa na?nama</i>	‘be frozen in shock, be scared stiff’	(spirit=ERG – leave)
Class (e): {P[STIM]-ERG V-a[3].p[3]}		
<i>muk khokma</i>	‘freezing/stiff hands’	(hand-chop)
<i>mi?wa saŋma</i>	(part of the death ritual)	(tear - brush off)
<i>ya limma</i> (transimp.)	‘taste good’	(mouth - taste sweet)

Table 9.3: Transitive/labile Experiencer-as-Possessor Predicates

9.2.2 Semantic properties

The Experiencer-as-Possessor Predicates are far less transparent and predictable than the Simple Noun-Verb Predicates. The nouns participating in this structure refer to abstract psychological or moral concepts like *lok* ‘anger’, *yupma* ‘sleepiness’ and *pomma* ‘laziness’, or they refer to body parts or inner organs which are exploited for experiential metaphors. The word *luṇma*, ‘liver’, for instance, is used in the expression of love and greed, and the word *nabhuk*, ‘nose’, is connected to upholding (or eroding) moral standards. The human body is a very common source for psychological metaphors, or as Matisoff observed:

[...] it is a universal of human metaphorical thinking to equate mental operations and states with bodily sensations and movements, as well as with physical qualities and events in the outside world. (Matisoff 1986: 9)

In Yakkha, too, psychological concepts are treated as concrete tangible entities that can be possessed, moved or otherwise manipulated. Many verbs employed in Experiencer-as-Possessor predicates are verbs of motion and caused motion, like *keʔma* (both ‘come up’ and ‘bring up’, distinguished by different stem behavior), *kaṇma* ‘fall’, *haṇma* ‘send’, *lemnhaṇma* ‘throw’, *pokma* ‘raise’ or *lomma* (both ‘take out’ and ‘come out’). Other verbs refer to physical change (both spontaneous and caused), such as *khonʔdiʔma* ‘break down’, *himma* ‘whip/flog’ or *kipma* ‘cover tightly’. Most of the predicates acquire their experiential semantics only in the particular idiomatic combinations. Only a few verbs have intrinsic experiential semantics, like *tukma* ‘hurt/be ill’.

9.2.3 Morphosyntactic properties

9.2.3.1 Wordhood vs. phrasehood

Experiencer-as-Possessor Predicates host both nominal and verbal morphology, as a possessive prefix (referring to the experiencer) attaches to the noun, and the verbal inflection attaches to the verb. The verbal inflection always attaches to the verbal stem, so that the verbal prefixes stand between the noun and the verb (see (14)). It has already been shown above that some of the psycho-nouns can also be inflected for number and also trigger plural morphology on the verb, and that others may show case marking (see (8b) and (10a)).

- (14) *a-luṇma* *n-duṇ-meʔ-nen=na*
 1SG.POSS-liver NEG-pour-NPST-1>2=NMLZ.SG

‘I do not love you./I do not have compassion for you.’

The experiencer argument, always indexed by the possessive prefix on the noun, is rarely expressed overtly. It may show the following properties: it is in the nominative or in the genitive when the light verb is intransitive, and in the ergative in predicates that show transitive subject agreement with the experiencer argument (Class (a) and (b)).

Noun and verb have to be adjacent, as shown by the following examples. Constituents like degree adverbs and quantifiers (see (15a) and (15b)) or question words (see (15c)) may not intervene.

- (15) a. *tuknun u-ninwa (*tuknun) tug-a-ma, [...]*
 completely 3SG.POSS-mind (*completely) hurt[3SG]-PST-PRF
 ‘She was so sad, ...’ [38_nrr_07.009]
- b. *ka khiṇ pyak a-ma=ŋa u-luṇma*
 1SG so_much much 1SG.POSS-mother=ERG 3SG.POSS-liver
 (**khiṇ pyak*) *tuṇ-me-ŋ=na*
 (*so_much much) pour[3SG.A]-NPST-1SG.P=NMLZ.SG
 ‘How much my mother loves me!’ [01_leg_07.079]
- c. *ijaṇ n-lok (*ijaṇ) khot-a-ŋ-ga=na=i?*
 why 2SG.POSS-anger (*why) scratch-PST-1SG.P-2SG.A=NMLZ.SG=Q
 ‘Why are you angry at me?’

Information-structural clitics, usually attaching to the rightmost element of the phrase, may generally stand between noun and verb, but some combinations were judged better than others (compare (16a) with (16b)). Compare also the impossible additive focus particle =*ca* in (16a) with the restrictive focus particle =*se* and the contrastive particle =*le* in (17). Overtly expressed experiencer arguments may naturally also host topic and focus particles, just like any other constituent can. This is shown e.g. by (16b) and by (17c) and (d).

- (16) a. *a-yupma=ci(*=ca) n-yus-a=ha=ci*
 1SG.POSS-sleepiness=NSG(*=ADD) 3PL.A-be_full-PST=NMLZ.NSG=NSG
 Intended: ‘I am tired, too (in addition to being in a bad mood).’
- b. *u-ṭaṇ=ca pog-a-by-a=na*
 3SG.POSS-horn=ADD rise[3SG]-PST-V2.GIVE-PST=NMLZ.SG
 ‘She is also naughty.’
- c. *ka=ca a-yupma=ci n-yus-a=ha=ci*
 1SG=ADD 1SG.POSS-sleepiness=NSG 3PL.A-be_full-PST=NMLZ.NSG=NSG
 Only: ‘I am also tired (in addition to you being tired).’ (not e.g. ‘I am tired in addition to being hungry.’)

- (17) a. *a-saklum=ci=se*
 1SG.POSS-need=NSG=RESTR
m-phen-a-sy-a=ha=ci
 3PL-be_activated-PST-MDDL-PST=NMLZ.NSG=NSG
 ‘I am just pining over it.’
- b. *uŋ=ŋa u-ma u-chik=se*
 3SG=ERG 3SG.POSS-mother 3SG.POSS-hate=RESTR
ekt-uks-u-sa
 make_break-PRF-3.P[PST]-PST.PRF
 ‘He had nothing but hate for his mother.’ [01_leg_07.065]
- c. *ka=go a-sap=le thakt-wa-ŋ=na*
 1SG=TOP 1SG.POSS-[stem]=CTR send_up-NPST[3.P]-1SG.A=NMLZ.SG
 ‘But I like it.’ (said in contrast to another speaker)
- d. *uk=ka=se o-pomma=ci*
 3SG=GEN=RESTR 3SG.POSS-laziness=NSG
ŋ-gy-a=ha=ci
 3PL.A-come_up-PST=NMLZ.NSG=NSG
 ‘Only he was lazy (not the others).’

The noun can even be omitted, in case it was already active in discourse, such as in the question-answer pair in (18). It is, however, not possible to extract the noun from the predicate to relativize on it, neither with the nominalizer *-khuba* nor with the nominalizers *=na* and *=ha* as shown in (19) (cf. Chapter 13). Furthermore, in my corpus there is not a single example of a noun in a possessive experiential construction that is modified independently. The predicate is always modified as a whole, by adverbial modification. A certain degree of morphological freedom does not imply that the noun is a full-fledged argument.

- (18) a. *ŋkha mamu=ci n-sap*
 those girl=NSG 2SG.POSS-[STEM]
thakt-u-ci-g=ha=i?
 send_up-3.P[PST]-3NSG.P-2.A=NMLZ.NSG=Q
 ‘Do you like those girls?’
- b. *thakt-u-ŋ-ci-ŋ=ha!*
 send_up-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
 ‘I do!’
- (19) a. **kek-khuba (o-)pomma*
 come_up-NMLZ[S/A] (3SG.POSS-)laziness
 Intended: ‘the laziness that comes up’

- b. **ky-a=na* (o-)*pomma*
 come_up-PST=NMLZ.SG (3SG.POSS-)laziness
 Intended: ‘the laziness that came up’

The noun-verb complex as a whole may serve as input to derivational processes, such as the creation of adjectives by means of a reduplication and the nominalizer =*na* or =*ha*, shown in (20).

- (20) a. *uŋ tuknuŋ luŋma-tuk-tuk=na sa-ya-ma*
 3SG completely liver-REDUPL-pour=NMLZ.SG be[3]-PST-PRF
 ‘She was such a kind (loving, caring) person.’ [01_leg_07.061]
- b. *ikhin chippa-ke-ke?=na takabaŋ!*
 how_much disgust-REDUPL-come_up=NMLZ.SG spider
 ‘What a disgusting spider!’
- c. *nna chik-?ek-?ek=na babu*
 that hate-REDUPL-make_break=NMLZ.SG boy
 ‘that outrageous boy’

Wrapping up, just as we have seen above for the Simple Noun-Verb Predicates, the noun and the verb build an inseparable unit for some processes, but not for others; the predicates show both word-like and phrasal properties. Semantically, of course, noun and verb build one unit, but they can be targeted by certain morphological and syntactic processes: the nonsingular marking on psycho-nouns, psycho-nouns triggering agreement, the possibility of hosting phrasal clitics, and the partial ellipsis. The ambiguous status of these predicates is also reflected in their phonology: noun and verb are two units with respect to stress and voicing.

Another feature distinguishes the possessive experiencer predicates from compounds: nouns in compounds are typically generic (Fabb 2001: 66, Haspelmath (2002: 156)). As the noun in the possessive experiential predicates hosts the possessive prefix, its reference is made specific. The contiguity of noun and verb, the derivation of adjectives and the restrictions on extraction and modification also clearly show that noun and verb are one unit. All these conflicting properties of Yakkha add further support to approaches that question the notion of the word as opaque to morphosyntactic processes (as e.g. stated in the Lexical Integrity Principle). The possessive experiential predicates may best be understood as lexicalized phrases, like the predicates discussed in §9.1 above.

9.2.3.2 Behavioral properties of the experiencer arguments

Experiencers as morphologically downgraded, non-canonically marked subjects do not necessarily have to be downgraded in other parts of the grammar. As observed by Bickel (2004b), Tibeto-Burman languages, in contrast to Indo-Aryan languages, show a strong tendency to treat experiencers as full-fledged arguments syntactically. Yakkha confirms this generalization. In syntactic constructions that select pivots, the experiencer argument is chosen, regardless of the fact that it is often blocked from triggering verbal agreement. The nominalizer *-khuba* (S/A arguments) selects the experiencer, because it is the most agent-like argument in the clause (see (21)). As the ungrammatical (21c) shows, the stimulus cannot be nominalized by *-khuba*.

- (21) a. *takabaŋ u-chippa kek-khuba mamu*
 spider 3SG.POSS-disgust come_up-NMLZ girl
 ‘the girl who is disgusted by spiders’
 b. *o-pomma kek-khuba babu*
 3SG.POSS-laziness come_up-NMLZ boy
 ‘the lazy fellow’
 c. **chippa kek-khuba camyoŋba*
 disgust come_up-NMLZ food
 Intended: ‘disgusting food’ (only: *chippakeke?na*)

Another process that exclusively selects S and A arguments is the converbal clause linkage, which is marked by the suffix *-saŋ*. It implies that two (or more) events happen simultaneously, and it requires the referential identity of the S and A arguments in both clauses. Example (22) illustrates that this also holds for experiencer arguments.

- (22) a. *o-pomma kes-saŋ kes-saŋ kam cog-wa*
 3SG.POSS-laziness come_up-SIM come_up-SIM work do-NPST[3.P]
 ‘He does the work lazily.’
 b. *uŋ lok khos-saŋ lukt-a-khy-a=na*
 3SG anger scratch-SIM run[3SG]-PST-V2.GO-PST=NMLZ.SG
 ‘He ran away angrily.’

In causatives, the experiencer is the causee, as is evidenced by the verbal marking in (23). There is no overt marking for 1.P, but the reference is retrieved from the opposition to the other forms in the paradigm - with third person object agreement the inflected form would have to be *himmetugha*.

- (23) *khem=nun manoj=ŋa a-sokma*
 Khem=COM Manoj=ERG 1SG.POSS-breath
him-met-a-g=ha!
 whip-CAUS-PST-2.A[1.P]=NMLZ.NSG
 ‘Khem and Manoj (you) annoy me!’

The last syntactic property discussed here is the agreement in complement-taking verbs that embed infinitives, as for instance *yama* ‘be able’ or *tarokma* ‘begin’, shown in (24). Basically, the complement-taking verb mirrors the agreement that is found in the embedded verb. Those predicates whose experiencer argument does not trigger agreement in the verb also do not show agreement in the complement-taking verb. Other restrictions are semantic in nature, so that for instance ‘I want to get lazy’ is not possible, because being lazy is not conceptualized as something one can do on purpose. Thus, the agreement facts neither confirm nor contradict the above generalization. A more interesting case is the periphrastic progressive construction, with the lexical verb in the infinitive and an intransitively inflected auxiliary *-si?* (infinitial form and auxiliary got fused into one word). The auxiliary selects the experiencer as agreement triggering argument (see (24b)).

- (24) a. *ka nda a-lunma tuk-ma*
 1SG[ERG] 2SG 1SG.POSS-liver pour-INF
n-ya-me?-nen=na
 NEG-be_able-NPST-1>2=NMLZ.SG
 ‘I cannot love you./I cannot have pity for you.’
- b. *nda ka ijan n-lok*
 2SG[ERG] 1SG why 2SG.POSS-anger
kho?-ma-si-me-ka=na?
 scratch-INF-AUX.PROG-NPST-2=NMLZ.SG
 ‘Why are you being angry at me?’

10 Complex predication

This chapter deals with complex predication, i.e. with predicates that consist of multiple verbal stems. Yakkha follows a common South Asian pattern of complex predication where the verbs do not combine freely, but where a class of function verbs (Schultze-Berndt 2006) has undergone grammaticalizations and lexicalizations (since not all verb-verb combinations are transparent).¹

They are employed in various semantic domains; they specify the temporal structure or the spatial directedness of an event, they change the argument structure of a predicate, and they may also pertain to other kinds of information, such as modality, intentionality or the referential properties of the arguments. Notably, there are semantic restrictions; the function verbs select lexically defined subsets of verbal hosts, a matter which is still leaves potential for a deeper investigation. Two simple examples are shown below, with the verb *pi?ma* ‘give’ functioning as a benefactive marker (see (1a)), and the verb *khe?ma* ‘go’ functioning as a marker of directedness away from a reference point (see (1b)).

- (1) a. *ka katha lend-a-by-a-ŋ*
1SG story exchange-IMP-V2.GIVE-IMP-1SG.P
‘Tell me a story.’
b. *kisa lukt-a-khy-a=na*
deer run-PST-V2.GO-PST[3SG]=NMLZ.SG
‘The deer ran away.’

Both lexicalized and grammaticalized instances can be found among the complex predicates in Yakkha, and the line between lexicalizations and grammaticalizations is not always easy to draw. Most of the function verbs (V2s) display multiple functions, in close interaction with the lexical semantics of the verbal base they combine with. The expressive potential of function verbs is vast, and

¹The concatenation of verbs to specify the verbal semantics is a frequent pattern in South Asia and beyond; see for instance Butt (1995), Hook (1991), Masica (2001), Nespital (1997), Pokharel (1999) on Indo-Aryan languages, Matisoff (1969), DeLancey (1991), Bickel (1996), Ebert (1997), Doornenbal (2009), Kansakar (2005) on other Tibeto-Burman languages, and Peterson (2010) on a Munda language.

the productivity and transparency of complex predicates shows great variability, a fact that supports the view that the boundary between grammaticalization and lexicalization cannot always be drawn sharply.

This chapter is organized as follows: Section 10.1 introduces the formal properties of the Yakkha complex predicates and §10.2 discusses the functional range of each V2.

10.1 Formal properties

Complex predicates (henceforth CPs) are basically defined as expressing one event in a monoclausal structure that contains a sequence of verbs (Givón 1991). This makes complex predication similar to the definition of serial verb constructions (Aikhenvald 2006, Durie 1997), but as we will see below, there are significant differences.

In Yakkha, usually two (and maximally four) verbal roots may be combined to yield a more specific verbal meaning.² The basic structure of a CP in Yakkha is as follows: the first verbal stem carries the semantic weight, and the second stem (the function verb or ‘V2’) takes over the “fine-tuning” of the verbal semantics, as in (2),³ where the function verb *-nes*, with the lexical meaning ‘lay’, contributes aspectual (continuative) information. The class of V2s in Yakkha is closed (synchronically) and relatively small; it comprises just twenty-five verbs.⁴ Most of the V2s have a corresponding lexical verbal stem, but there are also three morphemes that behave like function verbs without having a transparent verbal etymology (treated here as well, because of their similarity to “proper” function verbs. Complex predicates (including transparent and non-transparent CPs) roughly make up one third of the verbal lexicon. In the recorded data of natural discourse, complex predicates make up only 17% (across genres), but the current size of the corpus does not allow any strong statistical claims.

- (2) *ka* *yog-u-nes-wa-ŋ=ha*
 1SG[ERG] search-3.P-V2.LAY-NPST[3.P]-1SG.A=NMLZ.NC
 ‘I (will) keep searching for it.’ [18_nrr_03.008]

²I have no evidence for predicates consisting of more than four stems in my Yakkha corpus, but I do not have negative evidence either.

³As several stems have more than one function, depending on their lexical host, I have decided to gloss them with their lexical meaning.

⁴There are a few V2 that only occur once in my data, and that are not treated further here, as generalizations about their function in complex predication are not possible yet: *yukt* ‘put down (for)’, *cok* ‘make’ and *rokt* (**tokt*) ‘get’.

As mentioned in the introduction, Yakkha has both grammaticalized and lexicalized CPs; one and the same V2 may have simultaneously developed a regular and productive function and an unpredictable, idiomatic meaning, which is not too surprising, as both developments have their origin in the metaphorical extension of verbal meanings. The distinction between lexicalized and grammaticalized forms is gradual, which has long been acknowledged in the typological literature (Lehmann 2002, Diewald 2010, Lichtenberk 1991, Himmelmann 2004) and in methodological approaches to grammar writing and lexicography (Schultze-Berndt 2006, Mosel 2006, Enfield 2006).⁵ Structurally, there is no way to distinguish lexicalized and grammaticalized complex predicates; they show completely identical behavior. Thus, the distinction between symmetrical and asymmetrical complex predicates that is made in Aikhenvald (2006), although it may hold on the level of individual tokens, is not useful in determining the different types of complex predicates in Yakkha. There is, however, a tendency towards grammaticalization in the function verbs. All of the V2s have a grammaticalized function, and just some of them appear in idiosyncratic verb combinations as well. In order to capture the correspondences between the lexical semantics of the V2s on the one hand and their lexicalized and grammaticalized occurrences on the other hand, an excursus into the lexicon is inevitable in this chapter.

The complex predicates in Yakkha roughly match criteria (a)-(e) of the definition of serial verb constructions in Aikhenvald (2006: 1):

- (a) The verbs act together to refer to one single event.
- (b) No overt marker of coordination, subordination, or syntactic dependency may occur.
- (c) CPs are monoclausal (clause-final markers occur only after the last verb).
- (d) CPs share tense, aspect and polarity values (i.e. these values can only be specified once).⁶
- (e) CPs share core (and other) arguments.
- (f) Each component of the construction must be able to occur on its own.

⁵Cf. also the distinction between ‘collocation’ and ‘construction’ in Svensén (2009).

⁶However, tense and aspect interact with the meanings of the V2 independently of the lexical verbs, and some V2 block certain tense/aspect markers, e.g. the immediate prospective V2 *-heks* ‘be about to’ is not possible with imperfective aspect.

Criterion (a) and the question what constitutes one event is not trivial; most events one can think of are inherently complex and consist of several subevents. The criterion developed in Bohnemeyer et al. (2007) proved to be useful in answering this question. It refers to the tightness of packaging of subevents that constitute one complex event. Bohnemeyer et al. call this criterion the *Macro-Event-Property (MEP)*:

A construction has the MEP if it packages event representations such that temporal operators necessarily have scope over all subevents. (Bohnemeyer et al. 2007: 504-5)

This criterion applies to all CPs in Yakkha, regardless of their individual functions.

Criterion (b) distinguishes Yakkha complex predicates from infinitive constructions with auxiliaries, from complement-taking verbs and from periphrastic tense forms involving converbal markers.

Criterion (c), monoclausality, usually correlates with eventhood.⁷ As the complex predicates even constitute one word (by the criteria of stress, morphophonological rules and clitic placement), the question of monoclausality is trivial in Yakkha. Further formal criteria are clause-final markers such as nominalizers, converbs; they are never found inside a CP.

Criterion (d) is restricted to modal and polarity markers in Yakkha, while the V2s interact with tense and aspect markers in their own ways.

Most definitions of serial verbs have the requirement that at least one argument should be shared. In the overwhelming majority of the Yakkha CPs in my data, all arguments are shared; the CPs are formed by nuclear juncture in the sense of Foley & Van Valin (1984: 190ff).

Yakkha CPs differ from serial verbs as defined above, and also from function verbs as they are defined in (Schultze-Berndt 2006: 362) in criterion (f): not all function verbs can be found synchronically as independent lexical verbs. One morpheme (the middle marker *-si?*) looks and behaves like a verbal stem, but can be traced back to a Proto-Tibeto-Burman suffix.⁸ The fact that suffixes even got reanalyzed as V2s show how salient complex predication is in the organization of the Yakkha verbal system. Another hybrid marker is *-i ~ -ni*, tentatively called *transitive completive* here. It occurs in paradigmatic opposition to another V2 *-pi? ~ -di?* ‘give’ which is found on intransitive verbs, yielding causative-inchoative

⁷But cf. Foley (2010) for a different view and counterexamples.

⁸The cognate Belhare reflexive marker *-chind* is a result of exactly the same development (Bickel 2003: 560).

correspondences like *maʔnima* ‘lose’ - *mandiʔma* ‘get lost’. This marker (*-i* ~ *-ni*) has no corresponding lexical verb either, and it does not license the typical double inflection that is found on CPs (cf. below). But its occurrence in infinitives and the opposition to another V2 make it look like a V2 itself. Note that these two markers *-siʔ* and *-i* ~ *-ni*, although discussed here along with V2s, are not labelled ‘V2’ in the glosses.

In the following I will outline the morphological structure of the CPs. The Yakkha pattern (and generally the Kiranti pattern) of complex predication differs from what we know from its Indo-Aryan sister construction (mostly termed (*explicator*) *compound verbs* in the Indo-Aryan descriptive tradition). In Indo-Aryan complex predicates, the inflection typically applies only to the V2 (Montaut 2004, Butt 1997, Hook 1991). In Yakkha, both verbs take inflectional material, though their inflection is subject to certain rules. They are laid out below, similar to Doornenbal’s analysis of Bantawa complex predicates (Doornenbal 2009: 251).

- Prefixes attach to the first verb (V.lex).
- The full suffix string attaches to the final, typically the second, verb (V2).
- The V.lex takes maximally one inflectional suffix, and only if it has purely vocalic quality (i.e. *-a* ‘PST/IMP/SBJV’, *-i* ‘1/2PL’ or *-u* ‘3.P’).
- There is no morphology on the first verb that is not underlyingly present in the complete suffix string, i.e. no morphologically empty ‘dummy elements’ are inserted.
- Only inflectional suffixes, but not phrasal clitics,⁹ clause-level particles or clause linkage markers attach to the V.lex.
- Marked vowel or consonant sequences may block the inflection of the V.lex (for details see further below).

This pattern is henceforth called recursive inflection (following the terminology and analysis in Bickel et al. 2007a on Chintang). As these rules show, the recursive inflection is both phonologically and morphologically informed. A prosodic constraint requires a disyllabic host for the V2, but the fulfillment of this requirement is conditioned by the availability of inflectional material, i.e. no dummy material is inserted. Example (2) above and example (3) illustrate the recursive inflection:

⁹Placing clitics between the verbal stems is indeed possible, for instance in Chintang, (Bickel et al. 2007a).

the first verb hosts the prefix and maximally one inflectional suffix, while the full suffix string and further material attach to the second verb. The V2 *-khe?* 'go' indicates the directedness of the movement away from a point of reference in, and the V2 *-nes* 'lay' indicates continuative aspect in (2).

- (3) *asen lukt-i-khe-i-ŋ=ha*
 yesterday run-1PL-V2.GO-1PL-EXCL=NMLZ.NSG
 'Yesterday we ran away.'

Suffixes containing consonants cannot stand between lexical verb and V2. The infinitive marker *-ma*, for instance, only attaches to the second verb, hence the verb in (3b) has the citation form *khun̥khe?ma*. In this respect, Yakkha is different from closely related languages such as Bantawa and Puma, where the infinitive marker attaches to both verbs in a complex predicate (Doornenbal 2009, Bickel et al. 2006).¹⁰ Yakkha complex predicates seem to be more tightly fused than the corresponding constructions in neighbouring languages, also with respect to other features such as stress and clitic placement (cf. §3.5.1).

Certain phonological conditions may block the inflection of the first verb, too, namely V2 stems that start in /h/ or in a vowel (or that consist merely of a vowel). This is exemplified for /h/-initial V2 in (4), and for vowel-initial V2 in (5).

- (4) a. *so-haks-u-ci* *se=ppa*
look-V2.SEND-3.P[PST]-3NSG.P RESTR=EMPH
'He just glanced at them (his eyes following them as they went).'
- [34_pea_04.044]
- b. *yun-heks-a!*
sit-V2.CUT-IMP
'Sit here (while I go somewhere else).'
- (5) a. *u-lan=ci* *le?-end-u-ci=ha*
3SG.POSS-leg=NSG drop-V2.INSERT-3.P[PST]-3NSG.P=NMLZ.NSG
'It (the plane) lowered its landing gear.'
- b. *jhyal* *peg-end-u=na*
window shatter-V2.INSERT-3.P[PST]=NMLZ.SG
'He (accidentally, unfortunately) shattered the window.'

Furthermore, when certain stem combinations result in phonologically marked sequences like CV-V(C) and CV?-V(C), [n] may be inserted (see (6) and §3.5.7 for

¹⁰Doornenbal (2009: 255), for instance, provides the infinitive of ‘forget’: *manmakhanma*.

the exact conditions, e.g. for the reason why this does not happen in cases like (5a)).

- (6) a. *leʔ-nen-saŋ*
 /leʔ-end-saŋ/
 drop-V2.INSERT-CVB
 ‘dropping’
 b. *pin-nhaŋ-saŋ*
 /piʔ-haks-saŋ/
 give-V2.SEND-CVB
 ‘marrying off (one’s daughter)’

The first verb and the function verb do not necessarily have the same valency, as several of the above examples and also (7) show. In (7a), the sequence is transitive-intransitive, yielding an intransitive predicate; the sequence in (7b), notably, is labile-ditransitive, yielding an intransitive predicate. Thus, either verb can be relevant for the argument structure of the whole predicate. However, the components of a complex predicate are nearly always synchronized with respect to their valency; in general, the inflectional morphology attaching to the complex predicate must be either from the transitive or from the intransitive paradigm.

The two predicates shown in (7) both have non-transparent, lexicalized semantics, but there is a difference in the relations between first verb and V2. In (7a), the verb *khus* with the independent meaning ‘steal’ acquires a new meaning in combination with a V2 with motion verb semantics. Other V2s here are possible as well instead of ‘go’, e.g. *-ra* ‘come’, to indicate that someone came fleeing. The verb *maks* in (7b) does not occur independently, only in combination with various V2s. The V2 here mainly specifies the intransitive valency.¹¹

- (7) a. *khus-a-khy-a-na*
 steal-PST-V2.GO[3SG]-PST=NMLZ.SG
 ‘He escaped.’
 b. *maks-a-by-a-na*
 be_surprised-PST-V2.GIVE[3SG]-PST=NMLZ.SG
 ‘He was surprised.’

Function verbs can also be further grammaticalized to become suffixes and lose their verbal qualities. For instance, the etymological source of the two nonpast allomorphs *-meʔ* and *-wa* are most certainly the two verbal stems *meʔ* ~ *me* ‘do,

¹¹It might seem anti-intuitive, but the function of the V2 ‘give’ is indeed detransitivization, similar to so-called ‘give’ passives (more below).

apply'¹² and *wa* 'exist' (their choice depending on the participant scenario, see §8.4.1). These two morphemes occupy different slots in the verbal inflection, they do not occur in the infinitives, and they do not license the recursive inflection, which shows that they are not treated as function verbs any more. In a similar way, the perfect tense markers *-ma* and *-uks* seem to have developed from verbal stems.¹³

10.2 The functions of the V2s

Table 10.1 provides an overview of the various V2 stems, their productive functions and their lexical origin, as far as it could be determined. As one can see, it is rather the norm that the V2s have more than one meaning or function; they are multi-faceted, which reflects the degree of their grammaticalization. Instances of lexicalizations will be discussed in the respective sections on each V2. The grammatical functions and the occurrence of a V2 in a lexicalized complex predicate usually show some semantic parallels.

As the table shows, many V2s are motion verbs; they are used to specify events with respect to their relation to the surrounding landscape, along the two parameters of (i) the cline of the hill and (ii) the directedness towards or away from a point of reference, which is often, but not necessarily, the speech situation.

For the V2s whose functions are mostly related to argument structure (*-pi?*, *-i*, *-ca*, *-si?*) the reader is also referred to §11.3. Some V2s, especially those specifying the spatial orientation, can only attach to a host that matches in transitivity, while others are not constrained regarding transitivity. They inflect intransitively when their lexical host verb is intransitive, and transitively when the lexical verb is transitive. The valency values in the table have to be understood as maximally possible values.

¹²At least diachronically, as evidence from neighbouring languages shows. In Yakkha, this verb only means 'put (waistband) around the waist'.

¹³Butt (2010: 66) makes a point that function verbs ('vector verbs' in Butt (2010) and most works from the Indo-Aryan descriptive tradition) are a class distinct from e.g. auxiliaries, which is confirmed by the Yakkha data as well as data from neighbouring languages such as Chintang (Bickel et al. 2007a), since function verbs and auxiliaries can co-occur in one clause. However, her claim that vector verbs are not subject to historical change as much as auxiliaries are cannot be confirmed in light of the verbal origin of some verbal suffixes in Yakkha and other Kiranti languages. The grammaticalization path proposed in Hopper & Traugott (1993: 108), namely: *lexical verb* (>*vector verb*) > *auxiliary* > *clitic* > *affix* is unlikely, as the complex predicates are already one word phonologically, and the historical change towards an affix apparently took place without the intermediate stage of an auxiliary.

The functions of the V2s pertaining to the temporal structure of a predicate have to be understood as tentative labels; since in-depth analysis of the verbal semantics, tense and aspect in Yakkha goes beyond the scope of this work and deserves a study in its own right.

10.2.1 The V2 *-pi?* (benefactive, affected participants)

Verbs of giving are often found grammaticalized as benefactive markers crosslinguistically. In Yakkha, the verb *pi?ma* ‘give’ has acquired the following grammatical functions: benefactive/malefactive, indicating affected participants (without necessarily expressing a causer), and a completive notion, translatable as ‘already’, ‘inevitably’ or ‘definitely’. Furthermore, it is found as a marker of intransitive valency in intransitive-causative pairs of lexicalized complex predicates.

In the benefactive function, the argument structure of the predicate changes, and a beneficiary participant is added as G argument to the verbal argument structure (note the agreement with the first person patient in (8b)). The morphosyntactic properties of the benefactive derivation are discussed in §11.3.3.

- (8) a. *end-u-bi-η=ha*
 insert-3.P[PST]-V2.GIVE-1SG.A=NMLZ.NSG
 ‘I poured her (some sauce).’
 b. *ka katha lend-a-by-a-η*
 1SG story exchange-IMP-V2.GIVE-IMP-1SG.P
 ‘Tell me a story.’

The effect on the ‘beneficiary’ is not necessarily a desirable one; the V2 can also be employed to convey malefactive or at least undesirable events, as shown by (9). Beneficiaries and also negatively affected participants gain syntactic properties that are typical of arguments; they trigger agreement in the verb and they qualify as antecedents of reciprocal derivations (see §11.3.3).

- (9) a. *yakkha ce?ya cek-ma=nin̩a limbu ce?ya*
 Yakkha language speak-INF=CTMP Limbu language
ceη-bi-me=ha!
 speak-V2.GIVE-NPST[1.P]=NMLZ.NSG
 ‘While talking in Yakkha, they answer in Limbu!’
 b. *khus-het-i-bi*
 steal-V2.CARRY.OFF-COMPL-V2.GIVE[3.P;PST]
 ‘He stole it (the basket) from him and carried it away.’ [34_pea_04.024]

V2	FUNCTION	LEXICAL MEANING	VALENCY
<i>-pi?</i>	(a) benefactive/malefactive (b) affected participants	‘give’	3
<i>(-pi? ~ -di?)</i>	(c) telic, completive (intrans.)		1
<i>-i ~ -ni</i>	completive (trans.)	(only V2)	2
<i>-ca</i>	(a) reflexive, (b) autobenefactive, (c) middle (intentional)	‘eat’	2 (but often detransitivized)
<i>-si?</i>	middle (unintentional)	(only V2)	1
<i>-khe?</i>	(a) motion away (b) telic (S/P arguments)	‘go’	1
<i>-ra (*ta)</i>	motion towards	‘come (from further away)’	1
<i>-ra? (*ta?)</i>	caused motion towards	‘bring (from further away)’	3
<i>-uks</i>	motion down towards	‘come down’	1
<i>-ukt</i>	caused motion down towards	‘bring down’	3
<i>-ap</i>	motion towards	‘come (from close nearby)’	1
<i>-apt</i>	caused motion towards	‘bring (from close nearby)’	3
<i>-ris (*tis)</i>	caused motion to a distant goal	‘invest, place’	3
<i>-bhes</i>	caused horizontal motion	‘send, bring here’	3
<i>-end ~ -neN</i>	(a) caused motion downwards, (b) accidental actions, regret	‘insert, apply’	3
<i>-ket</i>	caused motion up and towards	‘bring up’	3
<i>-haks ~ -nhan</i>	(a) caused motion up and away (b) irreversible caused change-of-state	‘send’	3
<i>-khet ~ -het</i>	(a) caused motion away (b) telic, excessiveness (transitive)	‘carry off’	3
<i>-a ~ -na</i>	do X and leave object behind	(only V2)	3
<i>-nes</i>	continuative	‘lay’	3
<i>-nun</i>	continuative	(probably <i>yun</i> ‘sit’)	1
<i>-bhoks</i>	punctual, sudden events	‘split’	2
<i>-heks</i>	(a) immediate prospective (b) do separately	‘cut’	2
<i>-ghond</i>	spatially distributed events	‘roam’	2
<i>-si?</i>	prevent, avoid	(probably <i>sis</i> ‘kill’)	2
<i>-so?</i>	find out, experience	‘look’	2

Table 10.1: Yakkha V2s, their functions and their lexical origins

- c. *a-nuncha* *a-namcyan=be*
 1SG.POSS-younger_sibling 1SG.POSS-cheek=LOC
thokt-a-by-a-η=na!
 spit-PST-V2.GIVE-PST-1SG.P=NMLZ.SG
 ‘My little brother spat on my cheeks!’

The V2 *-pi?* ‘give’ can also indicate that some participant is affected by the event in undesirable ways, a common function in East Asian languages, also known as adversative passive or ‘give’ passive (Keenan & Dryer 2007, Yap & Shoichi 1998). This usage differs from the benefactive in semantic and in formal ways. In the benefactive derivation the lexical verb can be marked by a suffix *-t* under certain conditions (see §11.3.3). This is not possible in non-benefactive functions of *-pi?*. Furthermore, the resulting complex predicate is always intransitive. A volitional agent and an intentional action are not necessarily implied. The affected participant is often non-overt, and its reference is retrieved from the context or from possessive marking (see (10c)-(10d)). The affected-participant usage of *-pi?* can be distinguished from the benefactives also by a special infinitival form of this V2, the suppletive stem *-di?*, which is only found in the intransitive usage of ‘give’.

- (10) a. *wasik n-da-ya-n,* *nnakha ghak*
 rain NEG-come[3SG]-PST-NEG that all
her-a-by-a=hoη
 dry-PST-V2.GIVE[3SG]-PST=SEQ
 ‘It did not rain, (and) after all that (i.e. their crops) dried up, ...’
 [14_kth_02.005]
- b. *ka tug-a-by-a-η=na*
 1SG get_ill-PST-V2.GIVE-PST-1SG=NMLZ.SG
 ‘I got ill.’
- c. *a-khon thot-a-by-a=na*
 1SG.POSS-neck get_stiff-PST-V2.GIVE[3SG]-PST=NMLZ.SG
 ‘My neck got stiff.’
- d. *a-yan mas-a-by-a=ha* [masabhya]
 1SG.POSS-money lose-PST-V2.GIVE[3SG]-PST=NMLZ.NSG
 ‘My money got lost.’

The following semantic minimal pair also illustrates the semantic nuance added by *-pi?* in contrast to *-khe?*. Example (11a) is a statement about food that has been rotten since some time, while in (11b) this fact is a new discovery that forces people to change their plans for the meal.

- (11) a. *kind-a-khy-a=na*
decay-PST-V2.GO[3SG]-PST=NMLZ.SG
'It is rotten (since long ago.)'
b. *kind-a-by-a=na*
decay-PST-V2.GO[3SG]-PST=NMLZ.SG
'It is rotten (but we had the plan to eat it now).'

The V2 *-pi?* ~ *-di?* is also found in lexicalized complex predicates, contributing transitivity information. Certain lexical stems never occur independently; they have to be in a complex predicate construction. Their valency is not specified; different V2s may combine with them to specify their transitivity. There are two corresponding sets of predicates, one intransitive, built by adding the V2 *-pi?* ~ *-di?* 'give', and one transitive, built by adding the marker *-i* ~ *-ni* (see §10.2.2 below) to the lexical verb. This alternation is illustrated by (12) and (13). The alternations do not always have the same direction, in terms of argument structure. In (12), the intransitive subject corresponds to the P argument in the corresponding transitive predicate, while in (13), it corresponds to the A argument. Table 10.2 provides further examples of this symmetrical alternation.

- (12) a. *maŋmaŋ-minmin m-maks-a-by-a-ma*
surprised-REDUPL 3PL-wonder-PST-V2.GIVE-PST-PRF
'They were utterly surprised.' [22_nrr_05.026]
b. *ka nda mak-ni-me?-nen=na*
1SG[ERG] 2SG wonder-COMPL-NPST-1>2=NMLZ.SG
'I will surprise you.'
- (13) a. *ka mund-a-by-a-ŋ=na*
1SG forget-PST-V2.GIVE-PST-1SG=NMLZ.SG
'I was forgetful.'
b. *mu?-ni-nen=na*
forget-COMPL-1>2=NMLZ.SG
'I forgot you.'

A different kind of lexicalization is shown in (14). Here, the lexical verb has an independent meaning (see (14a)), but it changes in unpredictable ways in the complex predicate. However, the notion of an affected participant remains valid in this example, too.

- (14) a. *khap yon-ma tarokt-uks-u*
roof shake-INF start-PRF-3.P[PST]
'The roof started shaking.' [27_nrr_06.031]

intransitive		transitive	
<i>mundi?ma</i>	‘be forgetful’	<i>mu?nima</i>	‘forget’
<i>maṇdi?ma</i>	‘be surprised’	<i>maknima</i>	‘surprise’
<i>mandi?ma</i>	‘get lost’	<i>ma?nima</i>	‘lose’
<i>phomdi?ma</i>	‘spill, get spilled’	<i>phopnima</i>	‘spill’
<i>himdi?ma</i>	‘(be) spread’	<i>hipnima</i>	‘spread’

Table 10.2: Transitivity alternations indicated by *-pi?* ~ *-di?* and *-(n)i*

- b. *pik yon-a-by-a=na*
 cow shake-PST-V2.GIVE[3SG]-PST=NMLZ.SG
 ‘The cow got scared.’

Furthermore, the V2 *-pi?* may emphasize the orientation towards an end point or to the completion of an event, best translatable with the adverb *already* in English (see (15)).

- (15) a. *mi=go sy-a-by-a-ma [sebyama]*
 fire=TOP die-PST-V2.GIVE[3SG]-PST-PRF
 ‘But the fire has gone out already.’ (said to indicate that there is no need to extinguish it)
- b. *makai end-i-bi-g=ha?*
 corn insert-2PL-V2.GIVE-2=NMLZ.NSG
 ‘Did you already plant the corn?’ [06_cvs_01.080]
- c. *ca-ya-by-a-ṇ=na*
 eat-PST-V2.GIVE-PST-1SG=NMLZ.SG
 ‘I already finished eating (the whole procedure is done, including washing hands).’

Finally, *-pi?* ~ *-di?* can also express that something happens immediately, without delay, with certainty or inevitably. Such a function, again, is only found with intransitive verbs (see (16)).

- (16) a. *duru nam-ma=hoṇ a-chippa*
 cow_milk smell-INF=SEQ 1SG.POSS-disgust
ṇ-gen-di-me
 3PL-come_up-V2.GIVE-NPST
 ‘Smelling milk, I will certainly get disgusted.’
- b. *am-di-me-ṇ=na*
 come-V2.GIVE-NPST-1SG=NMLZ.SG

‘I will come without delay.’

To conclude, this V2 shows an immense variety of functions (the Nepali translations need as much as three different verbs to cover the range of this marker: *dinu* ‘give’, *hālnu* ‘insert’ and *saknu* ‘finish’), and a deeper understanding of the interactions of this V2 with the respective lexical hosts would require more research.

10.2.2 The quasi-V2 *-i* ~ *-ni* (completive)

The marker *-i* ~ *-ni* partly behaves like a V2,¹⁴ although it does not correspond to a lexical verb. It marks completed transitive actions (see (17) and §8.4.5). As it codes transitivity information, it stands in complementary distribution with the intransitive completive use of the V2 *-pi?* ‘give’, as examples (12) and (13) and Table 10.2 in Section 10.2.1 above have already illustrated. The alternation between *-i* and *-ni* is phonologically conditioned: the allomorph *-ni* surfaces before consonants (see §3.5). If *-i* is followed by a vowel, it may also become a glide, as in (17c).

- (17) a. *uŋci-camyoŋba ŋ-geks-a-n, nam=ŋa ghak*
 3NSG.POSS-food NEG-ripen[3SG]-PST-NEG SUN=ERG all
her-i
 dry-COMPL[PST;3.P]
 ‘Their food did not ripen, the sun dried up everything.’[14_nrr_02.004]
- b. *nhaŋ pik=ci=ca chuʔ-ni-ma paŋne=bu,*
 and_then COW=NSG=ADD tie-COMPL-INF[DEONT] have_to=HSY
luŋkhwak=ca hoʔ-ni-ma paŋne
 stone=ADD pierce-COMPL-INF[DEONT] have_to
 ‘And he both had to tie the cows, they say, and he had to hole out a
 (grinding) stone.’¹⁵ [11_nrr_01.005]
- c. *n-chimd-y-uks-u-n-ci-ŋa-n=ha*
 NEG-ask-COMPL-PRF-3.P[PST]-NEG-3NSG.P-1SG.A-NEG=NMLZ.NSG
 ‘I have not finished asking them.’

There are also some lexicalized instances of this marker. In *toknima* ‘touch’, for instance, the interpretation is holistic and cannot be achieved by analytic decomposition of the predicate into its components. The verbal stem *tok(t)* means ‘get’

¹⁴Like V2 stems, it appears in the infinitival form of a complex predicate, in contrast to inflectional affixes that never occur in infinitives, even when they have V2 origin (cf. Section 10.1). It does not license the recursive inflection pattern, though.

¹⁵Context: the protagonist has to finish tasks within one night in order to win a bet.

when it occurs independently. Another example is *themnima* ‘compare’, with a stem *themd* that is not attested independently.

10.2.3 The V2 *-ca* (reflexive, middle, autobenefactive)

The polysemous V2 *-ca* ‘eat’ covers both grammatical and lexical functions. It has grammaticalized into a reflexive marker, characterized by detransitivizing effects on the syntax. Related to these functions, but semantically distinct, is the employment in autobenefactive derivations and in lexical compounding. The lexicalized complex predicates are verbs of grooming and social interaction; they all have in common the typically intended and beneficial affectedness of the subject. In this function, *-ca* does not necessarily have a detransitivizing effect.

The reflexive is constructed by attaching *-ca* ‘eat’ to the lexical verb (see (18)). The resulting complex predicate is always intransitively inflected. The A and P arguments have identical reference and thus they are expressed by a single noun phrase, which is in the nominative case and triggers agreement on the verb. See §11.3.4 for a detailed discussion of the reflexive function of *-ca*.

- (18) *babu=ci n-jond-a-ca-ya-ci*
 boy=NSG 3PL-praise-3.P-V2.EAT-PST-NSG
 ‘The boys praised themselves.’

In the following, the autobenefactive effect of *-ca* will be described. Example (19a) shows the stem *pha?* ‘knit, weave, plait’, which is typically transitive, with the result of the activity as object. However, the addition of *-ca* changes the interpretation to ‘knit something for oneself’, shown in (19b). The verbal person marking also changes to intransitive, but a P argument can still be expressed; semantically this is still a transitive verb.

- (19) a. *tamphwak pha?-uks-u-g=ha*
 hair weave-PRF-3.P[PST]-2.A=NMLZ.NC
 ‘Did you plait (your) hair?’
 b. *ka phurlun phan-ca-me-η=na*
 1SG little_box weave-V2.EAT-NPST-1SG=NMLZ.SG
 ‘I weave a *phurlung* (little box out of bamboo stripes) for myself.’

The verb *so?* ‘look’ in (20) is also transitive. It changes to intransitive inflection when *-ca* is attached, and the former P argument is now marked with a locative (20b). This is not a reflexive construction, the semantics do not entail that the A argument looks at photos of herself. Rather, the V2 alters the semantics to the

effect that a specific P argument is not necessary. If it is overtly expressed, it hosts a locative case marker. Omitting overt arguments is fine in both clauses, as all arguments can be easily dropped in Yakkha, but in (a), a P argument is still implied, which is not the case for (b). The typical situation here is that someone is looking at nothing especially, just enjoying a nice view, or someone who dreams with his eyes wide open.

As already mentioned, the valency of the lexical verb is not necessarily changed in the autobenefactive. In contrast to the reflexive and the reciprocal, also intransitive verbs can serve as input to this derivation, as the verb *khe?ma* ‘go’ in (21). The V2 here indicates an action that is intended for one’s own enjoyment, i.e. going to the police post without a particular reason, but just to have a chat with the policemen.

- (20) a. *so-ks-u-ga=na=i?*
look-PRF-3.P[PST]-2.A=NMLZ.SG=Q
‘Have you looked at it?’
- b. *ka (photo=be) son-ca-me-ŋ=na*
1SG (photo=LOC) look-V2.EAT-NPST-1SG=NMLZ.SG
‘I look dreamily (at the photos).’
- (21) *a-ppa pulis=be khien-ca-me?=na*
1SG.POSS-father police=LOC go-V2.EAT[3SG]-NPST=NMLZ.SG
‘Father goes to the police (to have a chat).’

Another verb illustrating the use of the V2 *-ca* is *koncama* ‘take a walk’, derived from the transitive verb *kot* ‘walk (around, from place to place)’ in (22a), from a poem about a butterfly.¹⁶ The underived verb *kot* is transitively inflected and takes the respective stations as objects, but never the goal of the movement. As (22b) shows, the V2 adds the notion of ‘consuming’ and enjoying a walk.

- (22) a. *phun phun kos-san*
flower flower walk-SIM
‘walking from flower to flower’ [04_leg_03.038] (poem about a butterfly)
- b. *kon-ca-se khe-i?*
walk-V2.EAT-SUP go-1PL[SBJV]
‘Shall we go for a walk?’

¹⁶The stem is realized as [kos] due to assimilation to the following sibilant.

To wrap up, the self-benefactive use of the V2 *ca* may, but not has to result in detransitivization. The P argument can still be expressed, but it is typically less central to the event.

The V2 *-ca* is also found in verb-verb sequences with holistic, unpredictable meanings, where the V2 interacts individually with the respective verbal meanings. Occasionally *-ca* also refers to the literal eating in verb-verb sequences, as in *sincama* ‘hunt, i.e. kill and eat’, *ηoncama* ‘fry and eat’, *komcama* ‘pick up and eat’ and *hamcama* ‘devour, bite and eat’. This transparent usage is possibly the etymological source from which the various grammaticalized functions and metaphorical meanings have emerged. A few examples suggest that *-ca* may also convey adversative contexts, pretty much the opposite of the autobenefactive notion.

- (23) *moη-ca-khuba* *babu*
 beat-V2.EAT-S/A.NMLZ boy
 ‘the boy who gets beaten up (regularly)’
- (23) *cuη=ηa* *n-laη=ci* *khokt-u-co-ci=ha?*
 cold=ERG 2SG.POSS-leg=NSG chop-3.P[PST]-V2.EAT[3.P;PST]-NSG=NMLZ.NSG
 ‘Did your legs get stiff from the cold?’ (Lit.: ‘Did the cold chop off and eat your legs?’)

The lexicalized predicates with *-ca* are presented in Table 10.3. Their semantics are non-compositional and non-transparent. They cover bodily functions and sensations, social interactions and actions performed for one’s own benefit or enjoyment. Formally, they are not different from the reflexive and autobenefactive examples shown above, but transitive predicates are more frequent in the lexicalized predicates. Examples of the metaphorical predicates are provided in (24).

- (24) a. *haiko=ha=ci*
 other=NMLZ.NSG=NSG
lem-u-ca-η-ci-η=ha
 flatter-3.P[PST]-V2.EAT-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I cheated the others.’
- b. *ka* *mi* *huη-u-ca-η=na*
 1SG[ERG] fire bask-3.P[PST]-V2.EAT-1SG=NMLZ.SG
 ‘I basked in the heat of the fire.’
- c. *ka* *uη* *luk-ma=be* *ond-u-ca-η=na*
 1SG[ERG] 3SG run-INF=LOC block-3.P[PST]-V2.EAT-1SG.A=NMLZ.SG
 ‘I outstripped him in running.’

The most transparent use of *ca* is shown in (25): the V2 retains its lexical meaning. The same content could as well be expressed in two independent clauses. The verbs

VERB	GLOSS	LEX. STEM	GLOSS
<i>chemcama</i>	‘tease’	<i>chemd</i>	‘tease’
<i>hencama</i>	‘defeat’	<i>hes</i>	-
<i>lemcama</i>	‘cheat, deceive’	<i>lem</i>	‘flatter, persuade’
<i>luncama</i>	‘backbite’	<i>lu?</i>	‘tell’
<i>incama</i>	‘sell’	<i>in</i>	‘buy’
	‘buy and eat’	<i>in</i>	‘buy’
<i>oncama</i>	‘overtake, outstrip’	<i>ond</i>	‘block’
<i>huncama</i>	‘bask’	<i>hun</i>	-
<i>incama</i>	‘play’	<i>is</i>	‘rotate, revolve’
<i>suncama</i>	‘itch’	<i>sus</i>	‘get sour’
<i>yuncama</i>	‘laugh, smile’	<i>yut</i>	‘sharpen’

Table 10.3: Some lexicalizations with the V2 *-ca* ‘eat’

participating in the complex predicate share all arguments, which motivates the choice of a complex predicate instead of two clauses.

- (25) *ka makkai ŋo-c-wa-ŋ=ha*
 1SG[ERG] corn fry-V2.EAT-NPST[3.P]-1SG.A=NMLZ.NSG
 ‘I make popcorn and eat it.’

Having looked at the whole range of functions of the V2 *-ca* ‘eat’, it is obvious that perceiving this marker merely as a syntactic valency-decreasing device is not justified. Rather, the common core of all the uses of this V2 is the volitionally and beneficially affected agent (with the exception of a few adversative usages).

The affectedness of the agent is also a property of the literal meaning of the verb *eat*. As pointed out in Næss (2009: 37), it is central to the semantics of *eat* and *drink* verbs. Næss argues that this semantic property of the event also makes it less prototypically transitive, as the agent shares the property of affectedness with patient arguments. Thus, the A and the P are not maximally distinct in *eat* and *drink* verbs. Verbs of eating often exhibit properties typical of intransitive verbs crosslinguistically, which possibly also gave rise to the grammaticalization of *-ca* into detransitivizing markers of reflexivity, autobenefactive, adversative notions and reciprocity (see §11.3.5) in Yakkha.

The extreme polysemy of the V2 *-ca* is not at all surprising, as the activity of eating is universal to human existence, and thus expectably a rich source for metaphors (Newman 2009). The use of ‘eat’ in the expression of experiential events

is a prominent pattern in Central and South Asia generally, also found in other Tibeto-Burman languages, and in Indo-Aryan languages (Hook & Pardeshi 2009: 154, Pramodini 2010). While the grammaticalization to passive markers is also found elsewhere (Heine & Kuteva 2002: 122), the use of ‘eat’ as marker of reflexivity is, to my best knowledge, not yet reported for other languages, although such a development is, for the reasons laid out above, very plausible.

10.2.4 The quasi-V2 *-si?* (middle, unintentional)

The marker *-si?* is not a verb historically, but it behaves according to the V2 pattern, triggering the recursive inflection and being part of the infinitives, which is why it is mentioned here as well (see below for its historical development). The morpheme is found in detransitivizing function as a middle marker (see (26) and §11.3.6), but also in less transparent intransitive verb-verb combinations, that will be shown in this section. The grammatical and lexical functions of *-si?* all share the semantic feature of indicating unintentional or involuntary actions. All verbs derived by the middle involve animate or human subjects.

- (26) a. *kamala=ŋa sakhi phaps-u=na*
 Kamala=ERG thread entangle-3.P[PST]=NMLZ.SG
 ‘Kamala entangled the thread.’
 b. *mendhwak=ci phaps-a-sy-a-ci*
 goat=NSG entangle-PST-MDDL-PST-[3]DU
 ‘The two goats lost their way.’

The component of unintentional actions is best illustrated in (27). The simple verb *tupma* ‘meet’ is already intransitive and inherently reciprocal (see (27a)). The middle specifies that the event happened spontaneously and unintentionally (see (27b)). The examples in (28) show further middle verbs.

- (27) a. *wandik tub-i?*
 tomorrow meet-1PL[SBJV]
 ‘Shall we meet tomorrow?’
 b. *tub-a-sy-a-ŋ-ci-ŋ=ha*
 meet-PST-MDDL-PST-EXCL-[1]DU-EXCL=NMLZ.NSG
 ‘We (dual) ran into each other.’
- (28) a. *cuwa=ŋa hipt-a-sy-a-ga=na=i?*
 beer=INS choke-PST-MDDL-PST-2=NMLZ.SG=Q
 ‘Did you choke on the beer?’

- b. *ka kolem=na=be sos-a-sy-a-η=na*
 1SG slippery=NMLZ.SG=LOC slide-PST-MDDL-PST-1SG=NMLZ.SG
 ‘I slipped on the slippery ground.’
- c. *chimd-a=nun chimd-a=nun*
 ask-PST[3SG]=COM ask-PST[3SG]=COM
tops-a-sy-a-η=na
 confuse-PST-MDDL-PST-1SG=NMLZ.SG
 ‘As she asked and asked, I got confused.’

Example (29) shows lexicalized predicates containing *-si?*, all from the experiential domain. A look at the independent meanings of the lexical roots here shows that the semantics of these predicates are non-compositional, non-transparent.

- (29) a. *cond-a-sy-a=bi=ba*
 praise[3SG]-PST-MDDL-PST=IRR=EMPH
 ‘She would have been happy.’ [13_cvs_02.056]
- b. *ηond-a-sy-a-ga=na=i?*
 remain-PST-MDDL-PST-2=NMLZ.SG=Q
 ‘Do you feel shy?’

The middle marker is also used in imperatives, with the function of turning commands into implorations. By using the middle, the speaker acknowledges the affectedness of the addressee of the request, or he implies that it is against the addressee’s will (e.g. in (30b)). In this function, the volitionality of the subject is allowed and even required, as (30b) and (30c) show.

- (30) a. *pog-a!*
 stand_up-IMP
 ‘Stand up!’
- b. *pog-a-sy-a*
 stand_up-IMP-MDDL-IMP
 ‘Please, stand up.’ (to a person who was not willing to stand up)
- c. *yok-t-a-by-a-sy-a,*
 search-BEN-IMP-V2.GIVE-IMP-MDDL-IMP,
so-t-a-by-a-sy-a
 look-BEN-IMP-V2.GIVE-IMP-MDDL-IMP
 ‘Please search her (the missing girl) for us, look for us.’ [22_nrr_05.084-5]

As for the etymology of the marker, it behaves like a grammaticalized verbal stem (V2) in the Kiranti languages, but it is a reconstructed suffix already in Proto-Tibeto-Burman. A sibilant suffix with middle semantics is well attested in many

Tibeto-Burman languages, e.g. in Dulong-Rawang and Padam (LaPolla 1996: 1944) and in languages of the West Himalayish branch (Matisoff 2003: 471). The verbal behavior of the marker is a Kiranti innovation, resulting from reanalysis of a suffix to a verbal stem, under the pressure to have a structure that is analogous to the other verbal operations that are marked by V2s in Kiranti languages (see Bickel (2003: 560) for the same development in Belhare).¹⁷ The middle marker in Yakkha does not have a stativizing effect on the temporal structure of the verb (reconstructed as a proto-function of this morpheme, Matisoff (2003: 471)). Most of the verbs have ingressive-stative Aktionsart, which is why they are usually marked for past while referring to present (stative) events.

10.2.5 The V2 *-khe?* (motion away, telicity)

The V2 *khe?* ‘go’ is found with intransitive telic verbs, emphasizing their orientation towards an end point, or the irreversibility of an event. Example (31a), for instance, was uttered to emphasize that the subject is already fast asleep, implying that it is useless to wake up that person. The other examples in (31) illustrate the application of this V2 to indicate irreversible intransitive events.

- (31) a. *ips-a-khy-a=na*
 fall_asleep-PST-V2.GO[3SG]-PST=NMLZ.SG
 ‘She has fallen asleep (better not wake her up).’
- b. *a-ma sy-a-khy-a, i*
 1SG.POSS-mother die-PST-V2.GO[3SG]-PST=NMLZ.SG what
cok-ma=na?
 do-INF=NMLZ.SG
 ‘My mother has died, so what to do?’ [06_cvs_01.020]
- c. *wa bhale ka-ya-khy-a*
 cock cock call-PST-V2.GO[3SG]-PST
 ‘The cock crowed already.’¹⁸ [11_nrr_01.011]
- d. *ulippa pan hor-a-khy-a=na*
 old house crumble-PST-V2.GO[3SG]-PST=NMLZ.SG
 ‘The old house crumbled down.’

¹⁷In some Kiranti languages the marker has reflexive and reciprocal semantics, e.g. in Limbu (van Driem 1987: 86), in Kulung (Tolsma 1999: 61) and in Chintang (Bickel et al. 2010: 300). In Thulung and Wambule it is found as a detransitivizer or ‘stativizer’ (Lahaussais (2003: 209), Opgenort (2004: 351)).

¹⁸Context: the time is over and the protagonist loses his bet.

The development of a motion verb into a marker of telicity is common; the motion semantics get extended to a movement in time and changes-of-state in general. Examples that involve literal motion events are, however, also fairly frequent with *-khe?*, as the verbs in (32) illustrate. In these examples, the lexical verb denotes the kind of motion, and the V2 specifies the direction away from a point of reference.

- (32) a. *chemha phom-khem-me=ha*
 liquor spill[3SG]-V2.GO-NPST=NMLZ.NC
 ‘The liquor will spill.’
- b. *uimalaŋ=be sos-a-khy-a=na*
 steep_slope_downwards=LOC lie_slanted[3SG]-PST-V2.GO-PST=NMLZ.SG
 ‘He slipped on the steep slope (landing on his back and sliding off).’
- c. *kakkulik kaks-a-khy-a=na*
 rolling fall[3SG]-PST-V2.GO-PST=NMLZ.SG
 ‘She tumbled down (in somersaults).’ [06_cvs_01.020]
- d. *nhaŋ pes-a-khy-a-ma*
 and_then fly[3SG]-PST-V2.GO-PST-PRF
 ‘And then he has flown away.’ [21_nrr_04.030]
- e. *limbu=ci nhaŋ n-las-a-khy-a-ma*
 Limbu_group=NSG after_that 3PL-return-PST-V2.GO-PST-PRF
 ‘The Limbus went back afterwards.’ [22_nrr_05.035]

Lexicalized complex predicates are possible as well. In (33), the combination of *khus* ‘steal’ and V2 *-khe?* ‘go’ has acquired the meaning *escape*, without an action of stealing being implied. As in the examples in (32), the V2 specifies also the direction away from a point of reference. The same is possible with the V2 *-ra* ‘come’ to indicate that someone comes fleeing from a location further away.

- (33) *ŋ-khus-a-khy-a-n=na*
 NEG-escape-PST-V2.GO[3SG]-PST-NEG=NMLZ.SG
 ‘He did not escape.’

In some instances, the V2 *-khe?* retains its original lexical meaning, and simply means ‘go’, as in this sequence of events shown in (34). The transitive verbs ‘fry’ and ‘eat’ have been detransitivized to synchronize the argument structure with the final verb ‘go’. This is the only instance so far where the participants do not bear equal relations to the verb, as the location where the frying and the eating takes place is in a source relation to the the action of going.

- (34) *camraŋ=be cama i=ya*
 Camrang=LOC food what=NMLZ.NC
n-ni-ca-ya-khy-a-ma=hoŋ
 3PL-fry-V2.EAT-PST-V2.GO-PST-PRF=SEQ
 ‘After they have fried and eaten some food in Camrang and gone away, ...’
 [22_nrr_05.034]

The whole range of *-khe?* in complex predicates, thus, represents a continuum from the lexical meaning of ‘go’, via unspecific motion away from a point of reference, to a grammaticalized and regular telic function, by metaphorically extending a movement in space to a movement in time.

10.2.6 The V2 *-ra* (motion towards)

The V2 *-ra* (**ta*) ‘come (from further away)’ specifies an event in terms of motion towards a point of reference, while being unspecified for the uphill/downhill distinction. The lexical source verb in *tama*, but /t/ becomes [r] intervocalically in all V2 stems.

- (35) a. *arap=phan khus-a-ra-ya=na*
 Arab_countries=ABL escape[3SG]-PST-V2.COME-PST=NMLZ.SG
 ‘He came escaping from (working in the) Arab countries.’
 b. *cuncula [...] ten=be las-a-ra-ya-ma*
 Cuncula [...] village=LOC return[3SG]-PST-V2.COME-PST-PRF
 ‘Cuncula has returned home.’ [01_leg_07.307]
 c. *dharan men-da-le hiks-a-ra-ya=na*
 Dharan NEG-reach-CVB turn_around[3SG]-PST-V2.COME-PST=NMLZ.SG
 ‘Without reaching Dharan, he turned around and came back.’

An actual movement in space is not implied here either, as with *-khe?* discussed above. The function of *-ra* can also be metaphorically extended, just as in the English translation (see (36)).

- (36) *hiŋ-a-ra-ya=na*
 survive[3SG]-PST-V2.COME-PST=NMLZ.SG
 ‘He came back to life.’

10.2.7 The V2 *-ra?* (caused motion towards)

The lexical source verb of *-ra?* (**ta?*) refers to bringing something from further away, and this meaning component is preserved also in the complex predicates. It

specifies transitive events for directedness towards a point of reference. As such, the V2 can either modify a motion verb (see (37a)) or express a sequence of events (see (37b)).

- (37) a. *nhaŋ ak=ka kamnibak=ci hip-paŋ*
 and_then 1SG.POSS=GEN friends=NSG two-CLF.HUM
tikt-u-ra-wa-ŋ-ci-ŋ
 lead-3.P-V2.BRING-NPST-1SG.A-3NSG.P-1SG.A
 ‘And I will bring along two of my friends.’ [14_nrr_02.24]
- b. *eko phuŋ chikt-u-ra=na*
 one flower pluck[3SG.A;PST]-3.P-V2.BRING=NMLZ.SG
 ‘She plucked a flower and brought it.’

It is also possible to turn a transitive verb into a motion verb by adding *-ra?* (see (38)). Since the stem *momd* ‘cover’ is transitive, the V2 has to be transitive, too.

- (38) *eŋ=ga ten khibrumba=ŋa*
 1PL.INCL=GEN village fog=ERG
momd-u-ra=na
 cover[3SG.A;PST]-3.P-V2.BRING=NMLZ.SG
 ‘The fog came (lit.: brought) covering our village.’

10.2.8 The V2 *-uks* (motion down towards)

If intransitive motion is directed downwards and towards a point of reference, the V2 *-uks* ‘come down’ is used to specify this path.

- (39) *taŋkhyan ka-ya=na=hau. ikhiŋ=na!*
 sky speak[3SG]-PST=NMLZ.SG=EXCLA such=NMLZ.SG
hor-uks-heks-a=na
 burst-V2.COME.DOWN-V2.CUT-PST=NMLZ.SG
 ‘It thundered, indeed. Such a loud one! It (the sky) is about to break down on us.’ [13_cvs_02.088-89]

10.2.9 The V2 *-ukt* (caused motion down towards)

The V2 *-ukt* ‘bring down’ denotes caused motion down and towards the deictic center, both with monotransitive and ditransitive verbs. The resulting complex predicate has the argument realization of the indirective frame, showing agreement with the T argument (cf. Chapter 11). This verb is compatible with the adverb *mo* ‘downhill’ (versus *yo* and *to*), although this would be a somewhat redundant

expression. Note that in combination with CV or CV? stems that also have /u/ as stem vowel, the stems fuse into one syllable, as shown in (40b).

- (40) a. *ŋ-gamnibak (mo) tikt-ukt-u*
 2SG.POSS-friend (down) guide-V2.BRING.DOWN-3.P[IMP]
 ‘Bring your friend down here.’
 b. *ʈhunʈkha=bhaŋ siŋ*
 steep_slope=ABL wood
khu-kt-u-m-ŋ=ha
 carry-V2.BRING.DOWN-3.P[PST]-1PL.A-EXCL=NMLZ.NC
 ‘We brought down fire wood from the steep slopes.’

10.2.10 The V2 *-ap* (motion towards, from close nearby)

The V2 *-ap* ‘come’ denotes intransitive motion towards a point of reference, crucially from close nearby and from the same level with respect to the inclination of the hill, e.g. from a neighbouring house which is on the same elevation level. Such predicates are compatible with the adverb *yondaŋ*, which refers to sources on the same level.

- (41) *yo=na paŋ=bhaŋ las-a-ab-a=na*
 across=NMLZ.SG house=ABL return-[3SG]-V2.COME-PST=NMLZ.SG
 ‘She came back from the house across.’

10.2.11 The V2 *-apt* (caused motion towards, from close nearby)

The V2 *-apt* ‘bring’ expresses caused motion towards towards a point of reference, from close nearby and from the same elevation level with respect to the hill, in analogy to the intransitive *-ap* above. The resulting complex predicate has the argument realization of the indirective frame.¹⁹ As example (42b) illustrates, this V2 is also used for small-scale movements.

- (42) a. *ŋ-gamnibak tikt-apt-u*
 2SG.POSS-friend guide-V2.BRING-3.P[IMP]
 ‘Bring your friend here.’
 b. *jhola peʔleʔle und-apt-u-ga=i*
 bag IDEOPH pull-V2.BRING-3.P[IMP]-2=EMPH
 ‘Pull out the bag (from behind the heap of clothes, towards oneself).’

¹⁹Cf. §11.1.9.

The transitivity of the two verbal stems has to match. In (43), no literal ‘bringing’ of the substance is involved, at least not if bringing is understood as carrying something in a container outside one’s own body.

- (43) *nhan chemha=ca uη-apt-a-η-c-u-η=ba*
 and_then liquor=ADD drink-V2.BRING-PST-EXCL-DU-3.P-EXCL=EMPH
 ‘We drank liquor and came (lit.: brought it) here.’ [36_cvs_06.398]

10.2.12 The V2 *-ris* (caused motion to a distant goal)

The V2 *-ris* (**tis*), with the lexical meaning ‘place, invest’ (e.g. place a pot on the fire, invest money in some project), indicates caused motion towards a distant goal, implying that the object will remain there. The resulting predicate again exhibits the argument realization of the indirective frame (cf. Chapter 11). This V2 is not specified for the vertical dimension, and it is compatible with adverbial specifications for either *mo* ‘down’, *to* ‘up’ or *yo* ‘across’, but naturally not with adverbials expressing proximity to the deictic center.²⁰

- (44) a. *η-gamnibak u-pan=be*
 2SG.POSS-friend 3SG.POSS-house=LOC
tikt-u-ris-o
 lead-3.P-V2.PLACE-V2.LEAVE[3.P;IMP]
 ‘Deliver your friend at his home.’
 b. *uηci-ten=be ikt-u-ris-o*
 3NSG.POSS-village=LOC chase-3.P-V2.PLACE-V2.LEAVE[3.P;IMP]
 ‘Chase them to their village.’

10.2.13 The V2 *-bhes* (caused horizontal motion towards)

The V2 *-bhes* has the lexical meaning ‘send [towards]’, ‘bring [towards]’. It signifies that caused motion takes place on the same elevation level and towards the point of reference, for either small-scale or large-scale movements. Example (45a) shows transfer from a very short distance, the application of the blessing on the forehead (by sticking cooked rice on the forehead). Example (45b) shows the employment of this V2 for a large-scale movement. This V2 is only compatible with adverbs derived from the root *yo* ‘across’.

²⁰In both examples, two V2 are involved. The V2 *-a ~ -na* ‘leave’ fuses with the inflectional material (/ -u-a-u/) to result in [o].

- (45) a. *tika* *tal-a*
 blessing_on_forehead stick-NATIV
n-jog-u-bhes-u=hoŋ
 3PL.A-make-3.P-V2.BRING-3.P[PST]=SEQ
 ‘After they applied the blessings, ...’ (as remembered by a bride who
 got blessed) [25_tra_01.049]
- b. *nhaŋ*, *nna*, *lalubaŋ=nun* *phalubaŋ*
 and_then that Lalubang=COM Phalubang
ŋ-ikt-a-bhes-uks-u-ci
 3PL.A-chase-PST-V2.BRING-V2.PRF-3.P-3NSG.P
 ‘And then, they chased Lalubang and Phalubang here.’
 [22_nrr_05.023]

10.2.14 The V2 *-end* (caused motion downwards)

The V2 *-end* (~ *-nen* before consonants)²¹ has the lexical meaning ‘apply, insert’. As a V2, it indicates caused motion downwards, as shown by the examples in (46). Here, the motion is not specified for the direction towards or away from a point of reference.

- (46) a. *u-laŋ=ci* *leʔ-end-u-ci=ha*
 3SG.POSS-leg=NSG drop-V2.INSERT-3.P[PST]-3NSG.P=NMLZ.NSG
 ‘It (the plane) lowered its landing gear.’
- b. *nhaŋ* *phoʔ* *n-lept-end-wa*
 and_then IDEOPH 3PL.A-throw-V2.INSERT-NPST[3.P]
 ‘They throw it down swiftly (the fishing net).’ [13_cvs_02.009]
- c. *hut-end-u-ŋ=na*
 push-V2.INSERT-3.P[PST]-1SG.A=NMLZ.SG
 ‘I pushed him down.’

The V2 *-end* can also express caused motion downwards as a result of another action (see (47)). Furthermore, using this V2 may also convey regret. Saying *pe-genduŋna* (‘I shattered it’) sounds more regrettingly than the underived *peguŋna*.

- (47) a. *tabek=ŋa* *siŋ=ga* *u-whak*
 khukuri_knife=INS tree=GEN 3SG.POSS-BRANCH
cen-end-u=na
 chop-V2.INSERT-3.P[PST]=NMLZ.SG
 ‘He cut down the branch with a Khukuri knife.’ (Cut-and-break clips,
 Bohnemeyer et al. (2010))

²¹Cf. the citation forms *leʔnemma*, *lepnemma* and *huʔnemma* for the examples in (46).

- b. *u-sa seps-end-u*
 3SG.POSS-fruit pluck-V2.INSERT-3.P[IMP]
 ‘Get the fruits down (plucking).’

10.2.15 The V2 *-ket* (caused motion up and towards)

The V2 *-ket* ‘bring up’, signifies caused motion up and towards a reference point (see (48)). There is a corresponding intransitive stem *-ke?* ‘come up’, but it has not been found yet as V2.

- (48) a. *na eko=ŋa=go thend-u-get-uks-u=ba*
 this one=ERG=TOP lift-3.P-V2.BRING.UP-PRF-3.P[PST]=EMPH
 ‘Someone has lifted it up (carried it up in one’s hands).’
 [37_nrr_07.082]
- b. *thithi end-u-get-uks-u=na*
 upright insert-3.P-V2.BRING.UP-3.P[PST]-PRF=NMLZ.SG
 ‘He inserted it upright at an elevated place.’ [37_nrr_07.083]

The movement upwards may also happen on a very small scale. In (49), for instance, the speaker does not refer to someone plucking further downhill, but just one meter below herself.²²

- (49) *maŋkhu seps-u-get-u=ha*
 garlic pluck-3.P-V2.BRING.UP-3.P[PST]=NMLZ.NSG
 ‘She plucked and brought up the garlic.’

Furthermore, at least one example suggests that ‘bring up’ can also be understood metaphorically, as referring to a movement in time, where the past is equated with lower altitude.²³

- (50) *nna namda ka piccha nħanto*
 that festival 1SG[ERG] child since
nis-u-get-u-ŋ=na.
 see-3.P-V2.BRING.UP-3.P[PST]-1SG.A=NMLZ.SG
 ‘I have been attending this festival since childhood.’ [41_leg_09.006]

²²In Kiranti languages, the topography-based specification of events reaches a level of much greater distinction than speakers of European languages are generally used to (cf. Chapter 7, and Bickel 1999a; 2001, Ebert 1999b, Gaenszle 1999).

²³The postposition *nħanto* ‘since’ in this example literally means ‘and then up’, providing support to this hypothesis. Further support for the hypothesis that the past is conceptualized as ‘below’ comes from an idiomatic Noun-Verb Predicate, *setni ke?ma*, literally ‘bring up the night’, which refers to staying awake until the morning.

10.2.16 The V2 *-haks* (caused motion away, irreversibility)

The V2 *-haks* ~ *-nhaŋ* ‘send (things)’ expresses caused motion away from a point of reference (see (51)), and away from the agent (in contrast to *-khet* ‘carry off’ described below). Although its lexical meaning is ‘send (things)’, as a V2 it is also used with animate T arguments, including human referents.

- (51) a. *ka mima o-hoŋ=be*
 1G[ERG] mouse 3SG.POSS-hole=LOC
hut-haks-u-ŋ=na
 push-V2.SEND-3.P[PST]-1SG.A=NMLZ.SG
 ‘I pushed the mouse (back) into her hole.’
- b. *tebul=be cuwa tug-haks-u=ha*
 table=LOC beer wipe-V2.SEND-3.P[PST]=NMLZ.NSG
 ‘She wiped the beer from the table.’²⁴
- c. *luŋkhwak luŋkhwak seg-haks-u*
 stone stone chose-V2.SEND-3.P[IMP]
 ‘Sort out stone by stone (from the grains).’
- d. *wasik ta-ya=hoŋ hoŋma uks-a, ŋkhon*
 rain come[3SG]-PST=SEQ river come_down[3SG]-PST and_then
yokha?la chekt-haks-a=na
 across block-V2.SEND-PST[3SG]=NMLZ.SG
 ‘After the rain, a river came down, and we redirected it.’²⁵

Like the V2s *-khe?* ‘go’ and *-khet* ‘carry off’, *-haks* also conveys telicity and actions with irreversible consequences, as illustrated by the examples in (52). This V2 was particularly prominent in the data elicited with the Cut and break questionnaire (Bohnemeyer et al. 2010).

- (52) a. *solop miyaŋ eg-haks-u-su*
 immediately a_little break-V2.SEND-3.P[PST]-PST.PRF
 ‘Immediately he broke off a little.’ [04_leg_03.079]
- b. *a-yaŋ cum-haks-u-ŋ=ha*
 1SG.POSS-money hide-V2.SEND-3.P[PST]-1SG.A=NMLZ.C
 ‘I mislaid my money.’
- c. *hu-haks-u=na*
 accuse-V2.SEND-3.P[PST]=NMLZ.SG

²⁴Despite the ablative semantics of the verbs, the locative is the standard case choice with this verb.

²⁵The verb *chekthaksana* is detransitivized and passive-like structurally, but this structure can also express first person nonsingular agents (see §11.3.1.1).

‘He accused her.’²⁶

- d. *a-phu=ŋa cekt-haks-u=ha*
 1SG.POSS-eB=ERG talk-V2.SEND-3.P[PST]=NMLZ.NC
 ‘My elder brother did/finalized the talking.’²⁷ [36_cvs_06.363]
- e. *a-niŋwa=be=ha ce?ya lu-haks-u=ha*
 1SG.POSS-mind=LOC=NMLZ.NC matter tell-V2.SEND-3.P[PST]=NMLZ.NC
 ‘She blabbered out my secret thoughts.’

The V2 *-haks* may also attach to the lexical verb *haks*, an option that has not been found with other V2s so far. It implies that something was sent via an intermediate station, e.g. another house where the addressee has to go and get his things, or via a post office.

- (53) *salen haks-haks-u=na*
 message send-V2.SEND-3.P=NMLZ.SG
 ‘He sent the message (via some institution).’

Furthermore, this V2 is frequently used when the P or T argument of a verb is human (discussed in detail in §11.3.7). This is surprising, because the lexical verb *haks* ‘send’ implies inanimate T arguments. There is a strong tendency for referentially high objects (mostly P and T; as G arguments are expected to be referentially high anyway) to occur in a complex predicate construction, and one V2 choice for this is obviously *-haks*.

- (54) a. *i=ca n-lu-n-ci-n=ha,*
 what=ADD NEG-tell-NEG-3NSG.P-NEG=NMLZ.NSG
so-haks-u-ci se=ppa
 look-V2.SEND-3.P[PST]-3NSG RESTR=EMPH
 ‘He did not say anything to them, he just glanced at them.’
 [34_pea_04.044]
- b. *kaniŋ na=haŋ iŋ-nhaŋ-ma=na*
 1PL[ERG] this=ABL chase-V2.SEND-INF[DEONT]=NMLZ.SG
 ‘We have to chase him away from here (this place).’ [21_nrr_04.010]
- c. *kaniŋ lon-nhaŋ-ma sin*
 1PL take_out-V2.SEND-INF[DEONT] COP.1PL.INCL
 ‘He has to expel us.’

²⁶This is probably a metaphorical use of *hu?* ‘burn’.

²⁷Context: wedding negotiations.

10.2.17 The V2 *-khet* (caused motion along with A)

The V2 *-khet* ~ *-khe?* ~ *-(h)et* indicates that the object is carried off or in some way separated from its original location, remaining with the A argument. The lexical source verb is *khet* ‘carry off’. In the infinitives, the form is always *-khe?*, while in the inflected forms, the V2 surfaces as *-het* or even *-et*. These predicates either express a manner of caused motion away from a reference point, as in (55a) and (55b), or a sequence of doing something and literally carrying off the object, as in (55c) and (55d).

- (55) *ghak yan-het-i=nun=ga wasik*
 all flush-V2.CARRY.OFF-COMPL=COM=GEN rain
 ‘a rain that flushed away everything’ [38_nrr_07.076]
- (55) *jangal=be sa-het-u=hon*
 forest=LOC lead_by_rope-V2.CARRY.OFF-3.P[PST]=SEQ
 ‘He led it (the goat) into the jungle, ...’ [20_pea_02.026]
- (55) *yubak con-khe?-ma*
 goods shift-V2.CARRY.OFF-INF[DEONT]
 ‘The goods have to be unloaded and carried off.’
- (55) *khus-het-uks-u=ha hola*
 steal-V2.CARRY.OFF-PRF-3.P[PST]=NMLZ.NSG probably
 ‘He probably stole it and carried it off.’ [20_pea_02.014]

Like *-ra?* ‘bring’ described above, *-khet* ‘carry off’ can also be used metaphorically, with various interpretations. In (56a), it is employed to satisfy the requirement of matching valency within a complex predicate. The verb *-khe?* ‘go’ would be impossible here because it is intransitive, while *un* ‘drink’ is transitive. The same holds for transimpersonal verbs (see (56b) and (c)).²⁸ With such verbs the V2 has to be transitive. In these examples, *-khet* has a telicizing effect, similar to the effect of *-khe?* ‘go’ in intransitives. The lexical stems *lokt* and *hand* have ingressive semantics, i.e. when they are inflected for past, they refer to ongoing events. After *-khet* has been added, they are oriented towards the end point, as these examples show.

- (56) a. *khem un-het-u-n=na*
 before drink-V2.CARRY.OFF-3.P[PST]-1SG.A=NMLZ.SG
 ‘I had drunken it before and left.’
- b. *manawa lokt-het-u=ha*
 water boil-V2.CARRY.OFF-3.P[PST]=NMLZ.SG

²⁸ Transimpersonal verbs always show transitive person marking, but an overt A argument cannot be expressed.

‘The water boiled down.’

- c. *micu?wa hand-het-u=na*
bamboo_torch burn-V2.CARRY.OFF-3.P[PST]=NMLZ.SG
‘The bamboo torch burned down.’

Another interpretation of *-khet* was found e.g. with cognition verbs such as *mi?ma* ‘think, hope, want, remember’, but also with other verbs. In (57) the V2 functions as a marker of degree, intensity or excessiveness.

- (57) a. *nna hoŋ=be iha=le we?=na bhoy so?-ma*
that hole=LOC what=CTR exist[3SG]=NMLZ.SG COMP look-INF
mit-het-u-ŋ
think-V2.CARRY.OFF-3.P[PST]-1SG.A
‘I badly wanted to see what was inside that hole.’ [42_leg_10.024]
- b. *manpha tas-het-u=ha*
very_much arrive-V2.CARRY.OFF-3.P[PST]=NMLZ.NC
‘It became very/too much.’

10.2.18 The quasi-V2 *-a ~ -na* (do X and leave object)

The marker *-a ~ -na* expresses that the action was carried out at a location not identical to the point of reference and that the subject has returned, leaving the object there, like for instance in *phe?nama* ‘drop someone at X’ and *e?nama* ‘enroll someone’ (e.g. in a boarding school). There is no corresponding independent simple verb *ama* or *nama*, but there is the complex verb *na?nama* with the meaning ‘to leave’, which looks as if the first verb and the V2 are identical.

This marker, due to its limited phonological content, undergoes several morphophonological operations, like ablaut and the insertion of consonants, so that it is not always easy to distinguish *-a* from other morphological material in the verbal inflection. When the first suffix following the stems contains a consonant, the V2 surfaces as *-na*, e.g. in *na?nanenna* ‘I left you’. If the stems are followed by the suffix *-u*, the sequence */-u-a-u-/* will be realized as *[-u(?)o]*, *[-o(?)o]* or simply *[o]* (see (58)). If there is */-a-a/* underlyingly, the sequence will either be realized as *[aya]* or as *[a?a]* (see (59)). Furthermore, the ablaut (*/a/* to *[o]*) triggers a change of *[-uŋha]* in the suffix string to *[-oŋha]*.

- (58) a. *tisuona*
/tis-u-a-u=na/
place-PST-V2.LEAVE-1SG.P-2.A=NMLZ.SG
‘You delivered him (and returned).’

- b. *nyubak kamalabe*
 /n-yubak kamala=be/
 2SG.POSS-goods Kamala=LOC
hakto?oksoŋha
 /hakt-u-a-uks-u-ŋ=ha/
 send-3.P-V2.LEAVE-PRF-3.P[PST]-1SG.A=NMLZ.NSG
 ‘I have sent your goods to Kamala (so you can get them there).’
- c. *umajachen (...) lambu lambu yaksanun*
 /u-ma=ŋa=chen (...) lambu lambu yaksan=nuŋ/
 3SG.POSS-mother=ERG=TOP (...) road road grass=COM
seula eksan yukso?okso
 /seula ek-san yuks-u-a-uks-u/
 green_stalk break-SIM put-3.P-V2.LEAVE-PRF-3.P[PST]
 ‘His mother (...) broke off some gras and stalks along the road and left them (to help the son orient himself back home).’ [01_leg_07.072]
- (59) a. *tisayanŋana*
 /tis-a-a-ŋ-ga=na/
 place-PST-V2.LEAVE-1SG.P-2.A=NMLZ.SG
 ‘You delivered me (and returned).’
- b. *pasupatinathpe phesa?ayna*
 /pasupatinath=pe phes-a-a-ŋ=na/
 Pashupatinath=LOC bring-PST-V2.LEAVE-PST-1SG.P=NMLZ.SG
 ‘He brought me to Pashupatinath (and returned without me).’

10.2.19 The V2 *-nes* (continuative)

The V2 *-nes* ‘lay’ marks continuative events; i.e. events that are ongoing for longer than expected, and which are not oriented towards an end point. It is found with both transitive and intransitive verbs (see (60).) Examples (a) to (c) show the combination of *-nes* with activity verbs, and example (60d) shows that in ingressive-stative verbs, the continuative applies to the resulting state.

- (60) a. *wasik n-da-me-n=niŋa nam phen-a=na*
 rain NEG-come-NPST-NEG=CTMP sun shine[3SG]-PST=NMLZ.SG
phen-a=na, phen-a-nes-a=na
 shine[3SG]-PST=NMLZ.SG shine-PST-V2.LAY-[3SG]-PST=NMLZ.SG
 ‘While there is no rain, the sun was shining and shining, it kept shining.’
 [38_nrr_07.075]
- b. *le?namcuk kei m-mokt-u-nes-uks-u=ha*
 whole_day drum 3PL.A-beat-3.P-V2.LAY-PRF-3.P[PST]=NMLZ.NSG

- ‘They have kept playing the drums the whole day long.’
- c. *whaŋma=ŋa lupt-u-nes-u=na*
 sweat=ERG disperse-3.P-V2.LAY-3.P[PST]=NMLZ.SG
 ‘She kept sweating (e.g. after a long run).’
- d. *ka=ca hiŋ-a-nes-a-ŋ=na*
 1SG=ADD survive-PST-V2.LAY-PST-1SG=NMLZ.SG
 ‘I have survived, too.’

10.2.20 The V2 *-nuŋ* (continuative)

The V2 *-nuŋ* adds a continuative reading, similar to the function of *-nes* described above. I tentatively suggest the verb *yun* ‘sit’ as the etymological source of this V2. Firstly, the grammaticalization of ‘sit’ into a continuative marker would be a very common development historically, and secondly, I have shown that the insertion of a nasal occurs in vowel-initial and /h/-initial V2s, so that replacing /y/ with [n] seems plausible, too. So far, all examples found with this V2 were intransitive or detransitivized (see (61)).

Punctual events, like in (61a), get an iterative reading when *-nuŋ* is added. States and activities can also be extended by means of *-nuŋ* (see (61b), (61c)). In several instances, the two V2s *-nuŋ* and *-nes* seem to be interchangeable without any change in meaning. However, while *-nes* is more frequently combined with past tense, *-nuŋ* is typically found in nonpast contexts. The exact difference between *-nuŋ* and *-nes* cannot be established with certainty yet.

- (61) a. *a-laŋ=ci ŋ-aŋ-khe-nuŋ-me=ha*
 1SG.POSS-leg=NSG 3PL-descend-V2.GO-V2.SIT-NPST=NMLZ.NSG
 ‘My legs keep falling down (from the seat).’
- b. *he?niŋ=ca ŋonsi-nuŋ-me?=na*
 when=ADD feel_shy-V2.SIT[3SG]-NPST=NMLZ.SG
 ‘She is always shy.’
- c. *tek leŋ-nuŋ-me?=na*
 clothes exchange-V2.SIT[3SG]-NPST=NMLZ.SG
 ‘She keeps changing her clothes.’

10.2.21 The V2 *-bhoks* (punctual, sudden events)

The function of the V2 *-bhoks* has developed from the lexical meaning ‘split’. Adding this V2 to a lexical verb results in a punctual reading, or in the implication that an event happens suddenly and unexpectedly (see (62)).

- (62) *a-nabhak yokt-u-bhoks-u-η=na*
 1SG.POSS-ear prick-3.P-V2.SPLIT-3.P[PST]-1SG.A=NMLZ.SG
 ‘Suddenly I pierced through my ear (after trying some time and then applying too much pressure).’

With telic verbs, the event is distilled to an end point (see (63)), while with activities and ingressive-stative verbs, like in (64), the initial point of an event is emphasized by *-bhoks*.

- (63) a. *luṅkhwak then-d-u-bhoks-u-η=na*
 stone lift-3.P-V2.SPLIT-3.P[PST]-1SG.A=NMLZ.SG
 ‘I lifted the stone (with great difficulties, at once).’
 b. *mi mi=na et-u-η=na, khatningo*
 fire small=NMLZ.SG perceive-3.P[PST]-1SG.A=NMLZ.SG but
ma leks-a-bhoks-a=na
 big become[3SG]-PST-V2.SPLIT-PST=NMLZ.SG
 ‘It seemed to me that the fire was small, but suddenly it flamed up.’
- (64) a. *cumabya=ha ce?ya haku khom-bhoṅ-ma*
 hidden=NMLZ.SG language now dig-V2.SPLIT-INF[DEONT]
 ‘We have to start digging out the (our) hidden language now.’
 b. *okt-a-bhoks-a-ma-η=ba,*
 shriek-PST-V2.SPLIT-PST-PRF-1SG=EMPH
hab-a-bhoks-a-ma-η=ba
 cry-PST-V2.SPLIT-PST-PRF-1SG=EMPH
 ‘Suddenly I shrieked, I broke out in tears.’ [13_cvs_02.034]

10.2.22 The V2 *-heks* ((a) immediate prospective, (b) do sth. separately)

The V2 *-heks* is used when the event denoted by the main verb is about to begin, as shown in (65). Its literal meaning is ‘cut, saw’. Note, again, that because of the inceptive semantics of many verbs, usually the past form is used. The V2 may attach to verbs of any temporal structure, and restrictions on the semantics of the arguments (e.g. animacy or volitionality) were not encountered. With activities and states, the V2 conveys that the activity or state is about to start. With telic verbs, the V2 conveys that the end point is approaching. Example (66b) shows a combination of a completive notion and the ‘immediate prospective’ notion.

- (65) a. *o-theklup leks-heks-a=na*
 3SG.POSS-half become-V2.CUT[3SG]-PST=NMLZ.SG

- ‘Almost half (of the book) is finished.’
- b. *sabun mend-heks-a=na*
 soap finish-V2.CUT[3SG]-PST=NMLZ.SG
 ‘The soap is about to be finished.’
- c. *ucun=na lambu(=be) tas-heks-u-m=na*
 nice=NMLZ.SG way(=loc) arrive-V2.CUT-3.P[PST]-1SG.A=NMLZ.SG
 ‘We are about to get to the nice road.’
- (66) a. *la torṇunṇ leks-heks-a=na*
 moon full become-V2.CUT[3SG]-PST=NMLZ.SG
 ‘The moon is about to be full.’
- b. *hops-i-heks-u-ṇ=ha*
 sip-COMPL-V2.CUT-3.P[PST]-1SG.A=NMLZ.NC
 ‘I am about to finish (the soup).’

This V2 has a second meaning, translatable as ‘do separately’. The corresponding construction in Nepali is [V.STEM]-*dai garnu*. This usage of *-heks* is often found in commands, for instance when the speaker encourages the hearer to start or go on with some activity while the speaker leaves the speech situation (see (67)).

- (67) a. *yun-heks-a*
 sit-V2.CUT-IMP
 ‘Sit down (while I leave for a moment).’
- b. *co-heks-u*
 eat-V2.CUT-3.P[IMP]
 ‘Keep eating (without me).’
- c. *thukpa hops-heks-wa-ṇ=ha*
 soup sip-V2.CUT-NPST[3.P]-1SG.A=NMLZ.NSG
 ‘I am sipping soup (noone else does).’

10.2.23 The V2 *-ghond* (spatially distributed events)

The V2 *-ghond* has the literal meaning of ‘roam, wander around’. This marker refers to actions and events that happen distributed over various locations, in the same manner as has been analyzed for the cognate Belhare marker *-kon ~ -gon* (Bickel 1996: 163ff). This V2 may attach to intransitive and transitive stems, and can be inflected either way, too (see (68)).

- (68) a. *he?ne maṇḍu maṇḍu kha luplum=ci=be*
 somewhere far far those den=NSG=LOC
wa-ya-ghond-a i-ya-ghond-a=niṇ=ca, ...
 exist-PST-V2.ROAM-PST revolve-PST-V2.ROAM[3SG]-PST=CTMP=ADD

‘While he also used to live and walk around somewhere far far away,
in those caves, ...’ [18_nrr_03.013]

- b. *na maghyam heʔniʔ=ca sis-u-ghond-wa=na*
this old_woman when=ADD kill-3.P-V2.ROAM-NPST=NMLZ.SG
‘This old woman always walks around drunken.’ (lit. she walks around
being killed)
- c. *ijarj yoniʔ-kheniʔ n-jiʔ-ghom-me=haʔ*
why thither-hither 3PL-learn-V2.ROAM-NPST=NMLZ.NSG
‘Why do they walk around learning (languages)?’

Note that in (68b), the experiencer is treated like a standard P argument by case and the verbal person marking (indexed by the ‘3.P’ suffix). This does not prevent the experiencer argument from taking part in complex predication, which usually synchronizes the argument structure of the single components of one complex predicate. This again shows the importance of generalized semantic roles as parameter along which the syntax of Yakkha is organized.

Example (69) from a conversation clearly shows that the first verb is the semantic head, and that *-ghond* has lost its lexical meaning ‘walk around’. It merely adds the notion of spatial distribution. In the answer in (69b), the speaker refers to the event in question without using the V2.

- (69) a. *ɲkha i=ya het-u-ghond-wa-gaʔ*
that what=NMLZ.NSG cut-3.P-V2.ROAM-NPST-2
‘What are you cutting (at various places)?’ (said reproachfully)
[28_cvs_04.321]
- b. *are haʔlo, iarj me-heʔ-maʔ abbuiʔ*
hey EXCLA why NEG-cut-INF[DEONT] EXCLA
‘Goodness, why not to cut? Holy crackers!’ [28_cvs_04.323]

10.2.24 The V2 *-siʔ* (avoid, prevent)

The V2 *-siʔ* is always inflected transitively. It is probably etymologically connected to *sis* ‘kill’.²⁹ In a complex predicate, *-siʔ* means ‘avoid, prevent’. The lexical verb denotes an action that prevents something else from happening, like ‘catch’ in (70a) and (70b), and ‘scold’ in (70c). The event which shall be avoided is not necessarily expressed overtly; it is usually obvious from the utterance context.

²⁹In the Nepali translations, the predicates were paraphrased using *māṛnu* ‘kill’.

- (70) a. *picha kaŋ-kheʔ-ma n-dokt-u-n=na*,
 child fall-V2.GO-INF NEG-get-3.P[PST]-NEG=NMLZ.SG,
u-ma=ŋa lab-i-si=na
 3SG.POSS-mother=ERG catch-COMPL-V2.PREVENT[3.P;PST]=NMLZ.SG
 ‘The child could not fall down because its mother held it.’
- b. *lukt-heks-a=na, lam-siʔ-ma=na*
 run-V2.CUT-PST[3SG]=NMLZ.SG catch -V2.PREVENT-INF[DEONT]=NMLZ.SG
 ‘She is about to run away, we have to hold her.’
- c. *mokt-heks-uksa=na, nhaŋ*
 beat-V2.CUT-PST.PRF[3.P]=NMLZ.SG and_then
thind-i-si-ŋ=na
 scold-COMPL-V2.PREVENT[3.P;PST]-1SG.A=NMLZ.SG
 ‘He was about to beat him, so I scolded and stopped him.’

10.2.25 The V2 -soʔ (experiential)

The V2 -soʔ means ‘look’, and it is used as experiential marker, translatable with ‘try X and find out oneself’ (see (71)). Note that this is not a complementation strategy, one cannot express clauses like ‘I found out that X did Y’ or ‘I tried to X’ by means of this V2. Yakkha utilizes complement taking predicates to convey such meanings. The V2 is also not a means to express a conative, since it neither reduces the valency nor implies that the attempt fails (see Vincent (2013) for an overview of the different usages of the term ‘conative’). The crucial meaning component of -soʔ is ‘experiencing something by trying out oneself’. The grammaticalization of perception verbs to such a marker is common in South Asian and South East Asian languages.

- (71) a. *liŋmi=ŋa chapt-u-so!*
 straw=INS thatch-3.P-V2.LOOK[3.P;IMP]
 ‘Try and thatch (the roof) with straw!’ (said as advice against tin roofs)
- b. *kheps-u-so!*
 listen-3.P-V2.LOOK[3.P;IMP]
 ‘Listen and find out!’
- c. *chimd-u-ŋ-so-ŋ?*
 ask-3.P-1SG-V2.LOOK-1SG.A[3.P;SBJV]
 ‘May I ask and find out?’

This V2 behaves exceptional with regard to the material that can stand between the verbal stems. Usually the first verbal stem can be inflected only by one suffix, and only if the suffix consists of a vowel. However, as shown in (71c), the inflection on the first stem can include a nasal, if a nasal is available in the inflection.

A Grammar of Yakkha

Volume II

Diana Schackow

11 Transitivity

This chapter deals with argument structure, valency alternations and transitivity operations in Yakkha. The term argument structure is understood here as ‘the configuration of arguments that are governed by a particular lexical item’ (Haspelmath & Müller-Bardey 2004: 1130). In §11.1, the different verb frames of argument realization are identified by the number of possible arguments and their case and agreement properties. Several verbs occur in more than one frame; their alternations are treated in §11.2.¹ Apart from those alternations that result in straightforward classes, there are also transitivity operations that are more productive and not related to certain verb classes (see §11.3). One has to distinguish between operations that change the argument structure, by adding or removing argument roles, and those that merely change the argument realization, by changing case or person marking properties for an argument.

Many markers of transitivity operations are verbs historically. They are also found as parts of lexically complex predicates, and the grammatical functions are often related to the lexical meanings of these markers. This multiplicity of functions can be viewed as a result of simultaneous grammaticalization and lexicalization processes of certain verbs (see also Chapter 10).

11.1 Frames of argument realization

11.1.1 Theoretical preliminaries

Before starting with the description of the argument frames, some methodological and terminological remarks are in order. The argument frames are identified by three parameters: by agreement, by case and by the question how the verbal semantics interact with these two formal means. For this purpose, generalized semantic roles (GSRs) are identified for each predicate. Following Bickel (2010b), these roles are labelled as follows: ‘A’ stands for the most agent-like argument

¹Only predicates with nominal arguments are discussed in this chapter. For predicates taking clausal complements see Chapter 15.

of a transitive predicate,² ‘P’ stands for the most patient-like argument of transitive predicates, ‘S’ stands for the sole argument of intransitive predicates. For three-argument verbs, the most theme-like argument has the label ‘T’ and the most goal-like argument has the label ‘G’. By relying on generalized semantic roles to identify the arguments of a predicate, one does not imply that these roles build coherent classes of arguments, that are characterized by some common semantic or formal property. For example, locative-marked arguments can have the semantic role of goal, recipient, location, source or stimulus). Crucially, GSRs make sense only in relation to the particular predicates or predicate classes. No further morphosyntactic consequences, e.g. pivots in some construction, can be inferred from these terms, as different types of pivots may occur in Yakkha syntax (see Chapters 13, 14 and 15). The argument realization does not always match with the semantic transitivity, e.g. in transimpersonal verbs (see §11.1.7). Nevertheless, a “standard” intransitive and a “standard” transitive frame could be identified, which are the most common frames of argument realization. As arguments are frequently dropped in Yakkha, many examples in this chapter come from elicited data.

In the following, I will outline the two parameters of argument realization in Yakkha, person marking and case marking. As for person marking, Yakkha distinguishes intransitive and transitive inflectional paradigms (compare the marking of the verbs with regard to the role of the argument *kaniŋ* in (1)). Thus, there are three possible values: arguments may trigger intransitive (subject) agreement, transitive subject agreement or object agreement (the latter two being indicated as A or P in the glosses).³

- (1) a. *kaniŋ khe-i=ha*
 1PL go-1PL[PST]=NMLZ.NSG
 ‘We went.’ (S)
- b. *kaniŋ kei kheps-u-m=na*
 1PL[ERG] drum hear-3.P[PST]-1PL.A=NMLZ.SG
 ‘We heard the drum.’ (A)
- c. *uŋci=ŋa kaniŋ kheps-a=ha*
 3NSG=ERG 1PL hear-PST[1.P]=NMLZ.NSG
 ‘They heard us.’ (P)

²Yakkha does not exhibit differences between A arguments of two-argument and three-argument predicates, so that they do not have to be distinguished.

³For the function of the frequently occurring main clause nominalization see §refnmlz-uni-3. For the conditions of the nominative-ergative syncretism see §5.2.2.2.

The agreement markers are not uniformly aligned, so that for the purposes of this chapter person marking is presented as tripartite, i.e. agreement with S is different from agreement with A and also different from agreement with P.⁴ The reader should bear in mind that the indications in the glosses ('A, P') refer only to the type of person marking, following a common labelling tradition for languages where the verbs show agreement with more than one argument. These labels facilitate reading the glosses, they should not be conflated with the semantic roles of the verbal arguments, which can be 'S, A, P, T, G'.⁵

As for case, arguments can be marked with an ergative, a nominative, a genitive, a locative, an instrumental, and, albeit less commonly, with a comitative or an ablative. Yakkha has an ergative/instrumental syncretism; the case marking does not distinguish agent and instrument, but subsumes both roles under the umbrella category 'effector' (Van Valin & Wilkins 1996). In the following sections, schematic diagrams will illustrate the mapping of the semantic roles to the case and agreement properties for each argument frame. Altogether, 22 verb frames can be established. Roughly, they can be divided into intransitively inflected verbs, transitively inflected verbs, three-argument verbs, Possessor-as-Experiencer verbs, copular verbs and light verbs.

In the schematic diagrams of the frames of argument realization, capital letters stand for the respective GSRs of a predicate. Labels like 'ERG' indicate the case marking. The agreement is indicated with 's', 'a' and 'o', with the corresponding GSR following in square brackets.⁶

11.1.2 The standard intransitive frame

{S-NOM V-s[S]}

In the standard intransitive frame, the subject is in the unmarked nominative case (not written in the glosses) and triggers agreement on the verb. Verbs such as *imma* 'sleep', *posi?ma* 'vomit' and *numa* 'get well, recover' belong to this frame.

- (2) a. *ka posi-a-η=na*
 1SG vomit-PST-1SG=NMLZ.SG
 'I vomited.'

⁴The person marking on the Yakkha verb combines accusative, ergative, neutral and hierarchical alignment, see Chapter 8.2 on the verbal morphology.

⁵To illustrate this with an example: the verb *cimma* 'learn' is semantically transitive; it has an A argument (the learner) and a P argument (the thing learned, the knowledge acquired). The verb is, however, inflected with intransitive morphology (triggered by the semantic A argument, the learner), thus behaving like the verb in (1a) with respect to person marking.

⁶The same notational convention is employed e.g. in Schikowski et al. (in press)

- b. *nda nu-ga=na?*
 2SG get_well[PST]-2=NMLZ.SG
 ‘Are you fine?’
- c. *n-yag-a-sy-a-ga-n=na=i?*
 NEG-feel_exhausted-PST-MDDL-PST-2-NEG=NMLZ.SG=Q
 ‘Are you not exhausted?’

11.1.3 The intransitive experiencer frame

{A-NOM P-LOC/INS/ABL/COM V-s[A]}

Some experiencer verbs allow the expression of overt stimulus arguments, despite being identical to the standard intransitive frame in all other respects. The stimulus can be marked by various peripheral cases like the ablative, the locative, the instrumental and the comitative, as illustrated by example (3a) and (3b). These experiencer verbs are typically etymologically complex (both noun-verb and verb-verb compounds), as they often have bisyllabic stems, and Kiranti languages, following a broader tendency in Southeast Asian languages, are typically characterized by monosyllabic morphemes (Matisoff 1990a). Some verbs of this frame have metaphorical meaning: ‘to be hungry’ is expressed as in (3c), without the intention to exaggerate or to be ironic.

- (3) a. *ka nda=bhaŋ/nda=nun kisit-a-ŋ=na*
 1SG 2SG=ABL/2SG=COM be_afraid-PST-1SG=NMLZ.SG
 ‘I was afraid of you.’
- b. *ka coklet=pe kam-di-me-ŋ=na*
 1SG sweets=LOC pine_over-V2.GIVE-NPST-1SG=NMLZ.SG
 ‘I pine over sweets.’
- c. *sak=ŋa n-sy-a-ma-ŋa-n=na*
 hunger=INS NEG-die-PST-PRF-1SG-NEG=NMLZ.SG
 ‘I am not hungry.’

11.1.4 The motion verb frame

{A-NOM P-LOC V-s[A]}

Motion verbs are intransitively inflected, but they have two arguments, as they entail a mover (A) and the location or goal of the movement (P) in their conceptualization. This is also borne out by the natural language data: most of the motion verbs express the location overtly, marked by a locative. In a language that has generally more covert than overtly realized arguments, this can be counted as a strong indicator for the entailment of the locative argument in the verbal seman-

tics. The location or goal can be expressed by an adverb, as in (4a), or by a noun phrase (see (4b) - (4d)).

- (4) a. *kucuma he?ne khy-a=na?*
 dog where go[3SG]-PST=NMLZ.SG
 'Where did the dog go?'
 b. *koŋgu=be thaŋ-a=na*
 hill=LOC climb[3SG]-PST=NMLZ.SG
 'He climbed on the hill.'
 c. *sangoŋ=be yuŋ-a=na*
 mat=LOC sit_down[3SG]-PST=NMLZ.SG
 'He sat down on the mat.'
 d. *taŋkheŋ=be pes-a-khy-a=niŋ*
 sky=LOC fly[3SG]-PST-V2.GO-PST=CTMP
 'When he (the bird) flew into the sky, ...' [21_nrr_04.031]

Under certain circumstances the locative on the goal argument can be omitted, e.g. when the location is a specific place with a name, or if it is a place that one typically moves to, such as villages, countries, the school, the work place and the like (see (5) and Chapter 5.2.2.1).⁷ Only unmodified nouns can appear without the nominative; if the reference of the noun is narrowed down and made definite, e.g. by a possessive or demonstrative pronoun, it has to take the locative case (see (5c)).

- (5) a. *liŋkha=ci=ga te?ma bagdata nak-se*
 a_clan=NSG=GEN clan_sister finalization_of_marriage ask_for-SUP
mamliŋ ta-ya-ma
 Mamling come[3SG]-PST-PRF
 'A Linkha clan sister came to Mamling to ask for her *bagdata* (ritual).' [37_nrr_07.002]
 b. *hi?wa pes-a=na*
 wind fly[3SG]-PST=NMLZ.SG
 'He flew (up) into the air.' [21_nrr_004.051]
 c. *nna*(=be)=go imin thaŋ-ma?*
 that*(=LOC)=TOP how climb-INF
 'But how to climb to that (place)?' [22_nrr_05.098]

11.1.5 The standard monotransitive frame

{A-ERG P-NOM V-a[A].o[P]}

⁷Example (a) refers to a marriage custom called *bagdata*, see Chapter 2.2.2.5.

This frame characterizes the majority of the monotransitive verbs, such as *nima* ‘see’ and *mokma* ‘beat’. The verb shows agreement with both A and P. The A argument is marked by an ergative case =*ηa* (see (6a)), except for first and second person pronouns, which exhibit an ergative/nominative syncretism (see also Chapter 5.2.2.2).⁸ The condition for the ergative/nominative syncretism is identical to this frame throughout all the transitively inflected frames. The P arguments are in the nominative case.

- (6) a. *isa=ηa chemha tuks-u=ha?*
 who=ERG liquor spill-3.P[PST]=NMLZ.NC
 ‘Who spilled the liquor?’
 b. *ka iya=ca η-kheps-u-ηa-n=ha*
 1SG[ERG] what=NMLZ.NC=ADD NEG-hear-3.P[PST]-1SG.A-NEG=NMLZ.NC
 ‘I did not hear anything.’

11.1.6 The experiencer-as-object frame

{A-NOM P-ERG V-a[P].o[A]}

Experiential events often show deviations from the standard marking patterns of argument encoding (Bhaskararao & Subbarao 2004, Malchukov 2008). There is one frame in Yakkha that is identical to the standard monotransitive frame, but the marking of A and P is reversed; the experiencer triggers object agreement on the verb, while the stimulus triggers subject agreement (zero for third person singular) and hosts the ergative case clitic. The non-canonical agreement and case properties notwithstanding, the preferred constituent order is A-P-verb, and constructions with an S/A pivot, for instance, select the experiencer. The majority of the verbs belonging to this frame are related to the ingestion of food or to the consumption of other supplies, illustrated in (7).

- (7) a. *ka machi=ηa haηd-a-η=na*
 1SG pickles=ERG taste_spicy-PST-1SG.P=NMLZ.SG
 ‘The pickles tasted hot to me.’
 b. *ka haηha=ηa khot-a-η=na*
 1SG hot_spices=ERG have_enough-PST-1SG.P=NMLZ.SG
 ‘I have enough spice (in my food).’
 c. *nasa=ga ηai=ηa khikt-a-η=na*
 fish=GEN stomach=ERG taste_bitter-PST-1SG.P=NMLZ.SG

⁸Note that nouns with first and second person reference are possible in Yakkha (as if saying ‘Old woman AM tired’; see also Chapter 12.4). If they are A arguments of transitive verbs, they are marked by an ergative, in contrast to the first and second person pronouns.

‘The fish stomach tasted bitter to me.’

Verbs that refer to being affected by natural or supernatural powers also follow the object-experiencer frame, e.g. *teʔnima* ‘be possessed, suffer from evil spirit’ in (8). The verb ‘be drunk’ is expressed as shown in (8). The stem *sis* literally also means ‘kill’ with an animate, intentional A argument, but as the example shows, metaphorical meanings are possible as well. Notably, in this predicate, the stimulus is often omitted; *sis* has undergone a metaphorical extension towards the meaning of ‘being drunk’.

- (8) a. *punɖaraŋma=ŋa teps-y-uks-u=na*
 forest_goddess=ERG be_posessed-PRF-3.P[PST]=NMLZ.SG
 ‘He is possessed by the forest goddess.’
 b. *(raksi=ŋa) sis-a-ga=na=i?*
 liquor=ERG kill-PST-2.P=NMLZ.SG=Q
 ‘Are you drunk?’

11.1.7 The transimpersonal frame

{S-NOM V-a[3].o[S]}

The transimpersonal frame is similar to the object-experiencer frame. The verbs inflect transitively, but there is no overt A argument, the verbs show default third person singular subject agreement (zero). The sole argument is in the nominative and triggers object agreement on the verb. Diachronically there was probably an overt A, but the only remnant found synchronically is the agreement; all attempts at producing an overt A were regarded as ungrammatical. Malchukov (2008) notes that such constructions tend to be experiencer constructions crosslinguistically. In Yakha, however, transimpersonal verbs are not experiencer verbs, as the subjects of these verbs are not typically animate, sentient beings. Verbs belonging to this frame often have change-of-state semantics, e.g. *cikma* ‘ripen’, *lokma* ‘boil’, *homma* ‘swell’, *hupma* ‘be blocked’, *nomma* ‘remain’, shown in (9).

- (9) a. *a-nabhuk hut-u=na*
 1SG.POSS-nose be_blocked-3.P[PST]=NMLZ.SG
 ‘I have a blocked nose.’
 b. *a-laŋ=ci homd-u-ci=ha*
 1SG.POSS-leg=NSG swell-3.P[PST]-NSG.P=NMLZ.NSG
 ‘My legs are swollen.’
 c. *cama ŋond-u=ha*
 rice remain-3.P[PST]=NMLZ.NC

‘(Some) rice remained.’

- d. *cuwa cikt-u=ha*
 beer ripen-3.P[PST]=NMLZ.NC
 ‘The beer is well-fermented.’

An agent or cause cannot be expressed directly, only indirectly, via adverbial clauses such as in (10).

- (10) *tumbuk poks-a=ninja ten lus-u=na*
 gun explode[3SG]-PST=CTMP village deafen-3.P[PST]=NMLZ.SG
 ‘When the gun exploded, the village was deafened (by the noise).’

A transitive structure, with an overt A argument can be achieved by a causative derivation (11).

- (11) a. *maŋcwa lokt-u=ha*
 water boil-3.P[PST]=NMLZ.NSG
 ‘The water boiled.’
 b. *kamala=ŋa maŋcwa lok-met-wa=ha*
 Kamala=ERG water boil-CAUS-NPST[3.P]=NMLZ.NSG
 ‘Kamala boils water.’

Transimpersonal verbs are a solid class in Kiranti languages, found e.g. in Limbu (van Driem 1987: 451), in Thulung (Allen 1975: 42) and in Bantawa (Doornenbal 2009: 222). In Yakkha, 24 transimpersonal verbs have been found so far.

11.1.8 Marginally occurring frames

11.1.8.1 The locative object frame

{A-ERG P-LOC V-a[A].o[3]}

One verb, *tama* ‘arrive (at)’, differs from the standard monotransitive frame in marking the P argument with the locative case. The object agreement slot is always filled by default third person object agreement: speech-act participants cannot be the objects of this verb. Rather, one would express such content as ‘arrive at your place’, with third person object agreement.

- (12) *lalubaŋ=nun phalubaŋ=ŋa mamliŋ=be tas-a-ma-c-u*
 Lalubang=COM Phalubang=ERG Mamling=LOC arrive-PST-PRF-DU-3.P
 ‘Lalubang and Phalubang have arrived in Mamling.’ [22_nrr_05.041]

11.1.8.2 The semi-transitive frame

{S-ERG V-a[S].o[3]}

In the semi-transitive frame, the verb is transitively inflected and the sole argument receives ergative marking, but overt objects are suppressed. The verb shows default 3sg object agreement, as in (13). The expression of the P (the excreted substance) is not just considered redundant, but unacceptable.⁹ This frame is like the mirror-image of the trans-impersonal frame discussed above. However, the verb *oma* ‘vomit’ in (13) so far is the only member of this frame.

- (13) *tug-a-by-a=na* *yapmi=ŋa* *os-u=ha*
 get_sick-PST-V2.GIVE-PST[3SG]=NMLZ.SG person=ERG vomit-3.P=NMLZ.NC
 ‘The sick person vomited.’

11.1.8.3 The double nominative frame

{A-NOM P-NOM V-s[A]}

This frame was found only for one verb, but it is listed for the sake of completeness. The verb *cimma* ‘learn’ is inflected intransitively, although it takes two arguments. Both A and P are in the nominative, and A triggers the verbal person marking (see (14a)). With transitive agreement morphology the verb becomes the ditransitive verb ‘teach’ (see (14b)). Except for the additional argument, this alternation is identical to the labile alternation discussed in §11.2.1.

- (14) a. *hari iŋlis cind-a=na*
 Hari English learn[3SG]-PST=NMLZ.SG
 ‘Hari learned English.’
 b. *kamala=ŋa hari iŋlis cind-u=na*
 Kamala=ERG Hari English teach-3.P[PST]=NMLZ.SG
 ‘Kamala taught Hari English.’

11.1.9 Three-argument verbs

The case and agreement properties of the subjects of three-argument verbs are not different from those of monotransitive verbs. The argument realization of the T and G arguments, however, deserves a closer look. It is determined by both semantic roles and the referential properties of the arguments. The choice of the agreement triggering argument for the nominalizing clitics *=na* and *=ha* need not be the same as for the verbal agreement. The nominalizers are partly aligned

⁹See Li (2007: 1480) for a similar class of verbs in Nepali.

according to the referential properties of the arguments and partly according to their role. This is discussed in detail in Chapters 8.2 and 13.3.3 and will not figure prominently in the following treatment of three-argument frames.

11.1.9.1 The double object frame

{A-ERG G-NOM T-NOM V-a[A].o[G]}

In the double object frame, both T and G arguments are in the nominative case. The verb agrees with the A and usually with the G argument, except for some pragmatically marked scenarios where T becomes the agreement trigger (see §11.2.2). The choice of the nominalizer on the finite verb depends on T when T has third person reference: singular T triggers =*na*, and nonsingular or non-countable T triggers =*ha* (compare (15b) and (15c)). The verbs belonging to this frame are typically verbs of caused possession and benefactives (both derived and underived), and thus, the G arguments are typically animate in this frame.

- (15) a. *ka a-ni mendhwak hakt-wa-η=na*
 1SG[ERG] 1SG.POSS-aunt goat send-NPST[3.P]-1SG.A=NMLZ.SG
 ‘I send my aunt a goat.’
 b. *ka nda eko coklet piʔ-nen=na*
 1SG[ERG] 2SG one sweet give[PST]-1>2=NMLZ.SG
 ‘I gave you a sweet.’
 c. *ka nda pyak coklet piʔ-nen=ha*
 1SG[ERG] 2SG many sweet give[PST]-1>2=NMLZ.NSG
 ‘I gave you many sweets.’

11.1.9.2 The indirective frame

{A-ERG G-LOC/ABL/COM T-NOM V-a[A].o[T]}

The indirective frame is more frequent than the double object frame, i.e. there are more verbs that follow this frame. The G argument may have goal or source role and is marked by a locative (see (16)) or, occasionally, by an ablative or comitative case (see (17)), while the T argument is in the nominative and triggers object agreement on the verb (including the nominalizers). Mostly, caused motion is expressed by verbs of this frame.

- (16) a. *ka a-cya=ci iskul=be*
 1SG[ERG] 1SG.POSS-child=NSG school=LOC
paks-wa-η-ci-η=ha
 send-NPST-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I send my children to school.’

- b. *ak=ka khorek cula=ga u-yum=be*
 1SG.POSS=GEN bowl hearth=GEN 3SG.POSS-side=LOC
yuks-uks-u-η=na
 put-PRF-3.P[PST]-1SG.A=NMLZ.SG
 ‘I have put my bowl next to the hearth.’
- c. *ama=ηa a-nuncha netham=be*
 mother=ERG 1SG.POSS-younger_sibling bed=LOC
nes-u=na
 lay-3.P[PST]=NMLZ.SG
 ‘Mother laid my younger sister on the bed.’
- (17) a. *kha?ningo tu?khi leη-me?=niηa*
 but trouble happen[3SG]-NPST=CTMP
heko=ha=ci=nunη yan naη-ca-ma ucun men
 other=NMLZ.NSG=NSG=COM money beg-V2.EAT-INF nice NEG.COP
 ‘But in difficult times, it is not good to ask others for money.’
 [01_leg_07.257]
- b. *haku nharηto m-ban=uη nasa*
 now TEMP.ABL 2SG.POSS-father=COM fish
η-in-wa-n-ci-ηa-n=ha
 NEG-buy-NPST-NEG-3NSG.P-EXCL-NEG=NMLZ.NSG
 ‘From now on I will not buy fish from your father.’ [01_leg_07.208]

The locative can also mark adjuncts, yielding clauses that look superficially identical to the indirective frame. However, the adjuncts have to be distinguished from locative-marked arguments. In (18), for instance, it is straightforward that the locative-marked noun phrases refer to circumstances (time, place, manner, quantity Tesnière 1959: 108ff.) and are thus adjuncts. The decision whether a participant is an argument or an adjunct is, however, not that trivial for all the predicates.

- (18) a. *a-ppa=ηa ka omphu=be nis-a-η=na*
 1SG.POSS-father=ERG 1SG verandah=LOC see-PST-1SG.P=NMLZ.SG
 ‘Father saw me on the veranda.’
- b. *a-ma=ηa tan=be tek akt-u=na*
 1SG.POSS-mother=ERG loom=LOC fabric weave-3.P[PST]=NMLZ.SG
 ‘Mother wove (a piece of) fabric on the loom.’

11.1.9.3 The secundative frame

{A-ERG G-NOM T-INS V-a[A].o[G]}

The verbs of the secundative frame denote events of throwing, hitting, covering, applying, exchanging, events of creative or destructive impact. The T argument is marked by an instrumental case, but it is not always an instrument in the classical sense of ‘used by the agent to act on the patient’ (Andrews 1985), as (19a) shows. The G argument is in the unmarked nominative and triggers agreement on the verb (including the nominalizers). Some verbs of this frame may alternate with the indirective frame (the ‘spray-load alternation’, treated in §11.2.2).

- (19) a. *ka cabak=ŋa pange lend-u-ŋ=ha.*
 1sg rice=INS millet exchange-3.P[PST]-1SG.A=NMLZ.NSG
 ‘I exchanged rice for millet.’
- b. *u-ppa=ŋa hammana=ŋa picha ept-u=na*
 3SG.POSS-father=ERG blanket=INS child cover-3.P[PST]=NMLZ.SG
 ‘The father covered his child with a blanket.’
- c. *eko phiswak=ŋa sum=ci tukra yub-u-ci=ha*
 one knife=INS three=NSG piece cut-3.P[PST]-3NSG.P=NMLZ.NSG
 ‘He cut it into three pieces with a small knife.’ (Cut-and-break clips, Bohnemeyer et al. (2010))

11.1.10 The experiencer-as-possessor frame

{S-GEN/NOM POSS-N V-s[3]} ~

{A-GEN/ERG P-NOM POSS-N V-a[A].o[3]}

Experiential predicates are characterized by the core participant being emotionally or sensationally affected by the event. This makes the thematic role ‘experiencer’ less agent-like, which is often reflected in the treatment of experiencer arguments as non-prominent (‘downgrading’ in Bickel 2004b), e.g. by non-canonical case marking or by deviating agreement patterns (Levin & Rappaport Hovav 2005: 22ff., Næss 2007: 185ff.). We have already seen a class of experiential predicates in Yakkha that code their A arguments like standard objects. However, downgrading of an argument in one part of grammar, say, case marking, does not necessarily imply downgrading in other domains, for instance access to pivothood or reflexivization (Bickel 2004b: 77).

Most experiential events in Yakkha, and generally in Kiranti languages, are expressed by complex predicates consisting of a noun and a verb, and the experiencer (i.e., the A argument) is coded as the possessor of the noun (see also Chapter 9.2).¹⁰ The nouns that belong to such predicates denote sensations, feelings, character traits, moral qualities or affected body parts (hence, the term ‘psycho-noun’

¹⁰See Bickel (1997b) for Belhare.

in Matisoff (1986), adopted in this work). Noun-verb compounds for the expression of experiential events are not unique to Yakkha or Kiranti languages; they belong to a broader Southeast Asian pattern (Matisoff 1986).

Morphosyntactically, the psycho-noun hosts a possessive prefix that refers to the experiencer. The noun may also trigger agreement on the verb (see (20) for examples). Some psycho-nouns are conceptualized as nonsingular and thus trigger nonsingular verbal agreement. The predicates can be grouped into intransitively and transitively inflected verbs. Some verbs show alternations. The two schematic diagrams above only show the most common frames of the Experiencer-as-Possessor predicates, corresponding to (20a) and (20b), respectively. In (20c), the stimulus triggers object agreement. For a detailed description of the subframes and alternations see Chapter 9.2.1.

- (20) a. *η=ga* *yupma(=ci)* *n-yus-a(=ci)?*
 2SG.POSS=GEN sleepiness(=NSG) 3PL-be_full-PST(=NSG)
 ‘Are you tired?’
- b. *η-khaep* *cips-u-ga=na=i?*
 2SG.POSS-interest/wish complete-3.P[PST]-2.A=NMLZ.NSG=Q
 ‘Are you satisfied?’
- c. *nda* *ka* *ijaη* *n-lok*
 2SG[ERG] 1SG why 2SG.POSS-anger
 khot-a-η-ga=na?
 have_enough-PST-1SG.P-2SG.A=NMLZ.SG
 ‘Why are you mad at me?’

11.1.11 Copular and light verb frames

Copulas are different from the other verbs insofar as the predicate is a verb but a nominal, adjectival or locative constituent (Dryer 2007: 225). The constituents in copular clauses do not have semantic roles. Yakkha has two copular frames, which can roughly be characterized as the identificational and the existential frame. While the equational frame is expressed by copular verb or by a copular particle that is not found elsewhere in simple clauses, the existential frame is expressed by two standard intransitive verbs: *wama* ‘be, live, exist’ and *leηma* ‘become, happen, come into being’.

11.1.11.1 Frame (a): Identification, equation, class inclusion

Two different forms participate in Frame (a): a copular verb that can be inflected and a copular particle *om* that can also refer to any person, but is not inflected,

apart from the nonsingular marker =*ci* (see (21c)). They are used to equate or identify two entities, and to state class inclusion (see (21)). The forms of the copular verb are suppletive in the nonpast; in the past forms it has a stem *sa* (see Chapter 8.7 on the morphology of the copulas). The copular verb and the particle are optional, and thus they are often omitted. The particle is also used as affirmative interjection *om* ‘yes’. The domains of these two copular devices overlap, and in one instance they were found combined, too (see (21d)).

- (21) a. *ka khasi ηan*
1SG castrated_goat COP.1SG
‘I am a castrated goat.’ [31_mat_01.074]
- b. *ka isa om?*
1SG who COP
‘Who am I?’
- c. *susma=nun suman na nuncha om=ci*
Susma=COM Suman eZ yB COP=NSG
‘Susma and Suman are (elder) sister and (younger) brother.’ [01_leg_07.035]
- d. *ka na punḍa=ga khuncakhuwa ηan om!*
1SG this jungle=GEN thief COP.1SG COP
‘I am the thief of this jungle!’ [01_leg_07.335]

11.1.11.2 Frame (b): Existence, attribution, location, possession

Two verbs occur in Frame (b): the verb *wama* ‘be, live, exist’ is a stative verb expressing existence. Its stem shows irregular behaviour: the basic stem form is *wai?* ~ *wae?* ~ *we?*, and additionally, *ma* can be found in some negated forms (see Chapter 8.7 for the inflection of the copulas). This verb can occur in the motion verb frame, expressing location or possession (see (22a)). It can also be used to express a property of the copular topic, with an adjective as the predicate (see (22b) and (22c)).

- (22) a. *ibebe pyak encho paη=ci*
somewhere much long_time_ago house=NSG
m-ma-ya-nin=ha
NEG-exist-PST-PL.NEG=NMLZ.NSG
‘Once upon a time there were no houses.’¹¹ [27_nrr_06.001]
- b. *bani man=na*
habit exist.NEG.NPST[3SG]=NMLZ.SG

¹¹The adverbial phrase *ibebe* is a fixed expression, historically *ibe-ibe* ‘somewhere-somewhere’.

‘There is no (such) habit.’

- c. *nna cu?lumphi haku=ca cengacen wae?na*
 that stele now=ADD straight_upright be[3SG;NPST]=NMLZ.SG
 ‘This stele stands straight upright even now.’ [18_nrr_03.030]
- d. *piccha=go uhingilik we?na*
 child=TOP alive existNPST[3SG]=NMLZ.SG
 ‘But the child is alive.’ [22_nrr_05.087]

The second verb of frame (b) is the ingressive-phasal verb *leɲma* (stem: *leks*) ‘become, come into being, happen’, shown in (23). Apart from this meaning it is also used to express non-permanent properties, as in (23c).¹²

- (23) a. *na=ga suru imin leks-a=na bayɲɲɪn*
 this=GEN beginning how become[3SG]-PST=NMLZ.SG as.for
 ‘As for how she came into being...’ [14_nrr_02.002]
- b. *hoɲka?la leks-a=hoɲ*
 like_that become[3SG]-PST=SEQ
 ‘As it became like that, ...’ [11_nrr_01.019]
- c. *limlim lim=nun leɲ-me. khuɲ-khe?-ma=nɪɲa*
 sweet sweet=COM become[3SG]-NPST carry-V2.CARRY.OFF-INF=CTMP
li=nun=ca n-leɲ-me-n
 heavy=COM=ADD NEG-become[3SG]-NPST-NEG
 ‘The sweet will be tasty. While carrying, it also will not be heavy.’ [01_leg_07.044]

Example (24) shows a nice minimal pair between the identificational and the existential copula (*sana* and *waisa*). The identificational copula only takes nominal predicates. The question word *imin* ‘how’ is nominalized, and combined with the identificational copula. The existence of the snow is, however, expressed by the existential verb *wama*.

- (24) *i=na, la, thoɲ=ca imin=na sa=na*
 what=NMLZ.SG, FILLER, place=ADD how=NMLZ.SG COP.PST[3SG]=NMLZ.SG
hiun=le wai-sa, i=ya?
 snow=CTR exist-PST[3SG] what=NMLZ.NC
 ‘What, well, what kind of place was it (speaker thinking to herself), there was snow (speaker not sure, surprised), what was it?’ [19_pea_01.002]

¹²In (c), the property as such is of course permanent, but the subordinate clause puts the property in the perspective of a specific time.

11.1.11.3 Light verbs

The light verb strategy is commonly used to introduce Nepali verbs or light verb constructions into Yakkha. The construction is parallel to the Nepali source construction, but the Nepali light verbs are replaced by the Yakkha lexemes *wama* ‘exist, be’ and *cokma* ‘do’.

The resulting structure also gets formally adjusted to the Yakkha morphosyntax. In Nepali, some S/A arguments (e.g. of knowledge and experiential predicates) are marked by the dative *-lāi* (the Nepali translation of (25a) would be *ma-lāi ali-ali thāhā cha*), and the verb shows third person agreement with the noun in the nominative. But as there is no dative case in Yakkha, the result of the calquing is a nominative-marked subject and a light verb that triggers third person agreement. In light verb constructions which are not calques from experiential predicates, the verb agrees with the subject (S or A, see (25b)). Although overt P arguments are possible, as *nam* ‘sun’ in (25b), the light verbs found so far are always inflected intransitively, and A arguments in the ergative case were not found.

- (25) a. *ka mimik thaha wae?=na*
 1SG a_bit knowledge exist[3SG]=NMLZ.SG
 ‘I know a little bit.’ [13_cvs_02.022]
- b. *liṅkha=ci nam=nun baḡari n-jog-a*
 a_clan=NSG sun=COM bet 3PL-do-PST
 ‘The Linkhas had a bet with the sun.’ [11_nrr_01.003]

The same strategy is also used for borrowing Nepali verbal stems into Yakkha (see (26)). The Nepali stems are integrated into Yakkha by means of the suffix *-a* (also found in related languages, e.g. *-ap* in Belhare, Bickel (2003: 559)). The resulting lexeme *hara* is then treated like any other noun by the light verb.

- (26) *ṅkhon liṅkha baji=be har-a cog-a-khy-a*
 and_then a_clan bet=LOC lose-NATIV do[3SG]-PST-V2.GO-PST
 ‘And then the Linkha man lost the bet.’ [11_nrr_01.012]

11.2 Valency alternations

The frames introduced in Section 11.1 show various alternations. Different types of alternations have to be distinguished: some just change the argument realization, e.g. differential case marking, which is triggered by pragmatic factors such as scenario classes. Other alternations, e.g. the inchoative-causative lability, change the argument structure.

The labile verbs will be discussed in §11.2.1. Section 11.2.2 deals with the alternations among the three-argument frames.¹³

11.2.1 Lability

Labile verbs are characterized by variable transitivity of the same verbal stem, which is not brought about by means of a morphological derivation. Letuchiy (2009: 224) classifies labile verbs into different types: the inchoative/causative alternation, the reflexive alternation, the reciprocal alternation, the passive (extremely rare) and the converse type. According to this classification, Yakkha has the inchoative/causative¹⁴ and the reflexive.¹⁵ The current lexical database contains 77 labile verbs. The inchoative/causative alternation is patient-preserving; the reflexive alternation is agent-preserving (see also Letuchiy 2009: 223).

As lability is defined by the absence of morphological marking, it is hard to tell which form of a labile pair is the basic form. The intransitive verb can be considered the basic form semantically and formally, as less participants are involved in the event, and as the verb hosts less inflectional morphology than the transitive verb.¹⁶

Inchoative/causative lability

By far the majority of the labile verbs belong to the inchoative-causative class, a fact that goes along with the crosslinguistic findings in Letuchiy (2009). The intransitive verbs denote states or spontaneous changes of state. No agent or causer

¹³For alternations found among the experiencer-as-possessor predicates see Chapter 9.2.

¹⁴The inchoative/causative type is equated with ‘labile’ in Haspelmath (1993), whose definition of labile verbs is more restrictive.

¹⁵Furthermore, Yakkha shows morphologically unmarked detransitivizations that can have both passive and antipassive interpretations, but they do not change the semantic roles of the arguments, and hence they are not lexical alternations. They are treated below in §11.3 on transitivity operations. Letuchiy acknowledges the passive-type as labile, but considers unmarked antipassives *quasi-lability*, because his crucial defining feature for lability is a change of the semantic roles. But if semantic role change is required, his inclusion of the passive alternation is misleading. In passives, the semantic roles do not change; the undergoer of ‘beat’ does not have different semantic roles in the active vs. the passive voice.

¹⁶Impressionistically, there are definitely also differences in frequency among the labile verbs. Some are rather used transitively, and some are used intransitively more often, depending on which function of a verb is more plausible in natural discourse. The existing corpus is not big enough for significant statistic analyses.

argument is entailed in the verbal semantics.¹⁷ In the corresponding transitive verb, a causer argument that brings about the event is added, and the P argument corresponds to the S of the intransitive verb. Examples (27a), (27c) and (27e) show the inchoative verbs with S undergoing a spontaneous change of state, while (27b), (27d) and (27f) show the corresponding transitive verbs with an A argument bringing about that change of state. The verb *cimma* ‘learn ~ teach’ basically belongs to the same alternation, but it has one additional argument. The intransitively inflected verb has two arguments and the transitively inflected verb has three arguments (see Section 11.1.8.3).

- (27) a. *dailo hos-a=na.*
 door open[3SG]-PST=NMLZ.SG
 ‘The door opened.’
- b. *a-ppa=ηa dailo hos-uks-u=na.*
 1SG.POSS-father=ERG door open-PRF-3.P=NMLZ.SG
 ‘Father has opened the door.’
- c. *siη eg-a=na.*
 wood break[3SG]-PST=NMLZ.SG
 ‘The piece of wood broke.’
- d. *uη=ηa siη eg-u=na.*
 3SG=ERG wood break-3.P[PST]=NMLZ.SG
 ‘He broke the piece of wood.’
- e. *phuama yupma=ci=bhan cend-a=na.*
 last-born_girl sleepiness=NSG=ABL wake_up[3SG]-PST=NMLZ.SG
 ‘Phuama woke from her sleep.’
- f. *ka uη cend-u-η=na.*
 1SG[ERG] 3SG wake_up-3SG.P[PST]-1SG.A=NMLZ.SG
 ‘I woke her up.’

There are border cases of lability. In Yakkha, many events are expressed by complex predicates. In these predicates, the first stem contains the lexical verb, such as the labile stem *khiks ~ khiη* ‘stretch, grow’ in (28). The second verbal stem is from the closed class of function verbs (V2s, see Chapter 10); they specify the verbal semantics, for instance with regard to the temporal structure. In (28a), the V2 *-khe?* ‘go’ emphasizes the telicity of the event. It is sensitive to transitivity, too. The

¹⁷Notably, inchoative (‘anticausative’ in Creissels (to appear)) readings do not always express events that do not have an agent or a causer argument. Sometimes, the A is merely not relevant for a certain event, and thus it is not part of the underlying concept of the event, and has to be left unexpressed, as shown e.g. for facilitative readings of anticausatives in Tswana by Creissels (ibid.).

V2 *-khe?* is only compatible with intransitive interpretations (see ungrammatical (28b)). Thus, complex predication can have the secondary function of indicating transitivity features.

- (28) a. *ikhiŋ khiks-a(-khy-a)=na!*
 how_much stretch[3SG]-PST(-V2.GO-PST)=NMLZ.SG
 ‘How tall she became!’
- b. *a-laŋ=ci khiŋ(*-khe?)=ma=ci.*
 1SG.POSS-leg=NSG stretch(*-V2.GO)-INF[DEONT]=NSG
 Intended: ‘I have to stretch my legs.’

Reflexive lability

The stems of this class alternate between a transitive reading and an intransitive reading with reflexive semantics. In reflexives, strictly speaking, no argument is removed, but the A and P have identical reference and collapse into one single intransitive subject role formally (Haspelmath & Müller-Bardey 2004: 1134). In the transitive reading, an external P argument is added. Typically, the verbs undergoing this alternation refer to actions involving the body. The examples in (29) illustrate the reflexive alternation with three verb pairs.

- (29) a. *uŋci=ŋa men-ni-ma=nuŋ cum-a-ŋ=na*
 3NSG=ERG NEG-see-INF=COM.CL hide-PST-1SG=NMLZ.SG
 ‘I hid, so that they cannot see (me).’
- b. *ripu=ŋa khorek cum-u=na*
 Ripu=ERG bowl hide-3.P[PST]=NMLZ.SG
 ‘Ripu hid the bowl.’
- c. *ka=ca mimi? wasi?-a-ŋ=hoŋ, ...*
 1SG=ADD a_little wash-PST-1SG=SEQ
 ‘After washing myself a little, ...’ [40_leg_08.050]
- d. *a-nuncha wasi?-wa-ŋ=na*
 1SG.POSS-younger_sibling wash-NPST[3.P]-1SG.A=NMLZ.SG
 ‘I wash my little sister.’
- e. *a-chya (tek=ŋa) ept-a=na*
 1SG.POSS-child (cloth=INS) cover[3SG]-PST=NMLZ.SG
 ‘My child covered itself (with the blanket).’
- f. *yenda ept-a-n-u-m*
 millet_mash cover-PST-PL-3.P[IMP]-2PL.A
 ‘Cover the millet mash (for the beer).’

11.2.2 Alternations in three-argument verbs

Alternations in three-argument verbs are mostly conditioned by pragmatic factors such as topicality or the referential properties of the arguments.¹⁸ Typically, in events with three arguments, the G arguments (goals, recipients) are animate, definite and thus also more topicworthy, and the T arguments have a strong tendency to be inanimate, indefinite and thus less topic-worthy. Events in which this expected scenario is reversed are more marked pragmatically, and this could be reflected in the morphosyntax of the clause (Dryer 1986, Siewierska 2003, Haspelmath 2004b; 2005; 2007, Malchukov et al. 2010). Some of the referential effects are found exclusively in three-argument verbs in Yakkha, for instance a case of hierarchical agreement, where the T and the G argument compete for an agreement slot. One has to distinguish between argument-based alternations, i.e. effects that are conditioned by the referential properties of only one argument, and scenario-based alternations, i.e. effects that are conditioned by the properties of both T and G in relation to each other.

The spray-load alternation

One class of verbs shows alternations between the indirective and the secundative frame, also known as ‘spray-load alternation’. Either the T argument is in the instrumental case and the G triggers object agreement on the verb (the secundative frame, see (30a)), or the G argument is in the locative and the T triggers object agreement (the indirective frame, see (30b)).

- (30) a. *ka makai=ŋa dalo ipt-wa-ŋ=na*
 1SG[ERG] corn=INS sack fill-NPST[3.P]-1SG=NMLZ.SG
 ‘I filled the sack with corn.’ (secundative)
- b. *gagri=be maŋcwa ipt-u*
 pot=LOC water fill-3.P[IMP]
 ‘Fill the water into the pot.’ (indirective)

The verb *ipma* ‘fill’ in (30) can only have inanimate G arguments. Verbs with a greater variability of possible arguments may show restrictions on this alternation. Some verbs, for instance, block the secundative frame when the G argument is inanimate (31a). Only the indirective frame is possible (see (31b)). In order to

¹⁸My investigation of referentiality effects in three-argument verbs (see also Schackow (2012b)) has been inspired by the EUROBabel project Referential Hierarchies in Morphosyntax (RHIM) and the questionnaire on three-argument constructions, designed by Anna Siewierska and Eva van Lier.

license the secundative frame, the G argument has to have the potential to be affected by the event (31c). The verb *lupma* ‘scatter, disperse, strew’ provides another example of this restriction. Again, the the secundative frame is the preferred option for animate G arguments, while the indirective is used when inanimate G arguments are involved (32b) (context: the preparation of millet beer). In (32a), the G argument is non-overt, but it has human reference, which can be inferred from the context: a funeral.

- (31) a. **ka* *maŋcwa* *luŋkhwak=ŋa* *lept-u-ŋ=ha*
 1SG[ERG] water stone=INS throw-3.P[PST]-1SG=NMLZ.NSG
 Intended: ‘I threw a stone into the water.’ (*secundative)
- b. *ka* *lunxhwak* *maŋcwa=be* *lept-u-ŋ=na*
 1SG[ERG] stone water=LOC throw-3.P[PST]-1SG=NMLZ.SG
 ‘I threw a stone into the water.’ (indirective)
- c. *ka* *nda* *luŋkhwak=ŋa* *lep-nen=na*
 1SG[ERG] 2SG stone=INS throw[PST]-1>2=NMLZ.SG
 ‘I threw a stone at/to you.’ (secundative)
- (32) a. *kham=ŋa* *lupt-u-ga=i*
 soil=INS scatter-3.P[IMP]-2=EMPH
 ‘Cover him with sand.’
- b. *yenda=be* *khawa* *lupt-u-g=ha=i?*
 millet_mash=LOC yeast disperse-3.P[PST]-2=NMLZ.NSG=Q
 ‘Did you add the yeast to the millet mash?’

Alternations related to the animacy of G

One could see in the spray-load alternation that the unmarked nominative is preferred for animate, sentient G arguments. For some verbs, this results in alternations between the double object frame and the indirective frame. In (33a), the G argument is human, moreover it is a speech-act participant, and thus highest on the referential hierarchy (Silverstein 1976). Hence, the double object frame is chosen, the verb agrees with G, and both T and G are in the nominative. In (33b), the G has third person inanimate reference, and the frame changes to indirective, with G in the locative, and T triggering the agreement.¹⁹

- (33) a. *ka* *nda* *sandhisa* *khu?-nen=na*
 1SG[ERG] 2SG present bring[PST]-1>2=NMLZ.SG
 ‘I brought you a present.’

¹⁹There is no number hierarchy at work in these alternations. The number of T is not the crucial factor; but nonsingular was chosen to illustrate the agreement.

- b. *uŋ=ŋa kitab(=ci) iskol=be khut-u-ci=ha*
 3SG=ERG book(=NSG) school=LOC bring-3.P[PST]-3NSG.P=NMLZ.NSG
 ‘He brought the books to school.’

Some verbs change only the case marking of G, without changing the agreement. The verb *hambi?ma* ‘distribute’ is a benefactive derivation of *hamma* ‘distribute, divide, spread’. In the typical scenario, the G argument is referentially high, the T argument is low, and the argument realization follows the double object frame, as in (34a). When the G argument changes to inanimate reference, as in example (34b), it has to be in the locative case, but the verb does not change to the indirective frame; the agreement remains with G. Furthermore, instead of using the nonsingular marker =*ci* on the G argument *ten* ‘village’, it is marked for nonsingular number by reduplication, which indicates a plurality of subevents. This kind of plural marking is not encountered when the G argument is human, as shown in example (34c).

- (34) a. *ka nniŋda photo(=ci)*
 1SG[ERG] 2PL photo(=NSG)
ham-bi?-me?-nen-in=ha
 distribute-V2.GIVE-NPST-1>2-2PL=NMLZ.NSG
 ‘I distribute the photos among you.’
- b. *sarkar=ŋa yaŋ ten-ten=be*
 government=ERG money village-village=LOC
ŋ-haps-u-bi-ci=ha
 3PL.A-distribute-3.P[PST]-V2.GIVE-3NSG.P=NMLZ.NSG
 ‘The government distributed the money among the villages.’
- c. *ka piccha=ci yaŋ*
 1SG[ERG] child=NSG money
haps-u-bi-ŋ-ci-ŋ=ha
 distribute-3.P[PST]-V2.GIVE-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I distributed the money among the children.’

Scenario-based alternations

Not only case marking, also the verbal person marking can be subject to reference-based alternations. The Yakkha verb agrees with only one object, so that there is the potential for competition between T and G arguments as to which argument will trigger the agreement. The universal tendency for agreement to be triggered by arguments that are speech act participants, animate or topical was already mentioned by Givón (1976). This tendency can lead to hierarchical alignment of

	G[SAP]	G[3]
T[SAP]	V-o[G], G-LOC/NOM	V-o[T], G-LOC <i>so?me?ma</i> ‘show’ V-o[T], G-NOM <i>came?ma</i> ‘feed’
T[3]	V-o[G], G-NOM	

Figure 11.1: The effects of the T[SAP]→G[3] scenario

The same T[SAP]→G[3] scenario may also restrict alternations. The verb *nakma* (stem: *nakt*) ‘ask, beg’ alternates (almost) freely between the double object frame (see (38)) and the indirective frame (see (39)). It is the only verb that shows this alternation. The argument encoding is conditioned by the question which argument is central in a given discourse.

- (38) a. *ka nda chemha nak-nen=na*
1SG[ERG] 2SG liquor ask[PST]-1>2=NMLZ.SG
‘I asked you for liquor.’
b. *ka i=ya=ca n-nakt-a-ŋa-n!*
1SG what=NMLZ.NSG=ADD NEG-ask-IMP-1SG.P-NEG
‘Do not ask me for anything!’ [27_nrr_06:25]
- (39) a. *uŋ=ŋa ka=be unipma nakt-u=ha*
3SG=ERG 1SG=LOC money ask-3.P[PST]=NMLZ.NC
‘He asked me for his money.’
b. *uŋ=ŋa appa-ama=be ka nakt-a-ŋ=na*
3SG=ERG mother-father=LOC 1SG ask-PST-1SG.P=NMLZ.SG
‘He asked my parents for me (i.e. to marry me).’

However, when the T is a speech act participant and the G is not, as in (39b), the indirective frame is the only option. Clauses like the one in (40) are ungrammatical. Thus, the particular scenario in which the T is a speech act participant and the G is a third person restricts the alternations in the argument realization of this verb.

- (40) **uŋci ka n-nakt-u-n-ci-n*
3NSG 1SG NEG-ask-3.P[IMP]-NEG-NSG.P-NEG
Intended: ‘Do not ask them for me.’

The preceding section has shown how the argument realization in three-argument verbs can be conditioned by referential factors. The scenario T[SAP]→G[3] leads

to an obligatory change in person and case marking for the verbs *so?me?ma* ‘show’ and *came?ma* ‘feed’, and to a restriction in the alternation possibilities for the verb *nakma* ‘ask, beg’. Hierarchical alignment, partly combined with inverse marking, is also known from the verbal paradigms of other Tibeto-Burman languages, e.g. from rGyalrong (Nagano 1984), Rawang (LaPolla 2007), and to some extent from other Kiranti languages, too, like Hayu and Dumi (Michailovsky 2003, van Driem 1993b). In Yakkha verbal person marking, however, such characteristic hierarchical alignment as in the three-argument verbs shown above is not found in the monotransitive paradigms.²¹

11.3 Transitivity operations

This section discusses operations that bring about some change in the transitivity of a verb. The distinction of argument structure modifying vs. preserving that was introduced already for the alternations in §11.2 is also necessary for the transitivity operations. Some of them change the semantics of a predicate by introducing or removing certain arguments, while other operations are related to requirements of information flow, thereby promoting or demoting certain participants syntactically. Not all of these operations are overtly marked; detransitivizations have no dedicated marking.

This section is organized as follows: §11.3.1 discusses two unmarked detransitivizations: the passive and the antipassive. Sections 11.3.2 - §11.3.6 discuss the transitivity operations that are overtly marked on the verb: the causative, the benefactive, the reflexive, the reciprocal, and the middle. Most of these operations involve the attachment of a function verb (V2) to the lexical verb (see also Chapter 10). Section 11.3.7 deals with a pattern of complex predication that is required by certain pragmatically marked scenarios (with referentially high P or T arguments). Finally, §11.3.8 introduces some stem alternations that must have been productive valency-increasing morphology in an earlier stage of Kiranti. As these stem alternations are marked, they do not fit into the previous section (on unmarked alternations); and as they are no longer productive, they do not fit into the section on productive transitivity operations either. But as they provide a glimpse into the history of transitivity operations in Yakkha, they are included in this section.

²¹Several morphemes in Yakkha verbal person marking are scenario-sensitive, see Chapter 8.2. However, the alignment of the verbal person marking in Yakkha is too heterogenous to be captured by one principle or one hierarchy. It also includes ergative, accusative, tripartite and neutral alignment (cf. also Witzlack-Makarevich et al. (2011) for a Kiranti-wide study).

11.3.1 Unmarked detransitivizations

The detransitivizations, although morphologically unmarked and thus formally identical to lability (see §11.2.1), have to be carefully distinguished from lability, because the arguments are merely demoted with regard to some of their morphosyntactic properties; they are not removed semantically. The detransitivizations are syntactic operations; they are less restricted, whereas the labile verbs build a closed lexical class. The formal identity of detransitivization and lability may lead to overlaps and ambiguities (discussed below).

This section is structured as follows: §11.3.1.1 introduces the passive detransitivizations, §11.3.1.2 the antipassive, and §11.3.1.3 discusses the syncretism between detransitivized forms and verbs with first person plural arguments, which was probably motivated historically by a politeness strategy.

11.3.1.1 The passive detransitivization

Transitive verbs can be intransitively inflected, and thus receive a passive reading. In the passive, the P argument is the pragmatically salient argument, and gets promoted to the intransitive subject syntactically, i.e. it becomes the sole agreement triggering argument. The A argument can still be expressed, but it does not trigger agreement and has to be in an oblique case (the ablative =*bhaŋ* ~ =*haŋ*). I cannot make strong claims about the naturalness of obliquely expressed A arguments in the passive, as there is not a single example of this use of the ablative in my recorded natural language data.²² It is possible that the ablative is calqued upon the Nepali postposition *dvārā* ‘by means of’.²³ In (41) and (42), the (a) examples illustrate the formal properties of the passive, with the corresponding transitive active clauses in the (b) examples.

- (41) a. *na wa magman=bhaŋ sis-a=na*
 this chicken Magman=ABL kill[3SG]-PST=NMLZ.SG
 ‘This chicken was killed by Magman.’
 b. *magman=ŋa na wa sis-u=na*
 Magman=ERG this chicken kill-3.P[PST]=NMLZ.SG
 ‘Magman killed this chicken.’
- (42) a. *na paŋ a-phu=bhaŋ cog-a=na*
 this house 1SG.POSS-elder_brother=ABL make[3SG]-PST=NMLZ.SG

²²Remember that clauses with all arguments overtly expressed are exceedingly rare in Yakkha.

²³Ebert (1997: 123) provides examples of similar uses of the ablative in the closely related Athpare language, but it seems to be a marginal option in Athpare, too.

‘This house was built by my elder brother.’

- b. *a-phu=ŋa na paŋ cog-u=na*
 1SG.POSS-elder_brother=ERG this house make-3.P[PST]=NMLZ.SG
 ‘My elder brother built this house.’

As for three-argument verbs, in verbs of the double object frame, both T and G arguments can be promoted to subject status, illustrated in (43). Just as in the monotransitive verbs, the inflection changes to intransitive in the passive voice.

- (43) a. *na phuŋ nda=bhaŋ khut-a=na*
 this flower 2SG=ABL bring[3SG]-PST=NMLZ.SG
 ‘This flower was brought by you.’ (T → S)
 b. *ka phuŋ (nda=bhaŋ) khut-a-ŋ=na*
 1SG flower 2SG=ABL bring-PST-1SG=NMLZ.SG
 ‘I was brought a flower by you.’ (G → S)

The situation is different for three-argument verbs of the indirective frame (with G in the locative) and the secundative frame (with T in the instrumental). Here, only the argument in the unmarked nominative can be promoted to subject. The passive of the indirective frame is shown in (44).

- (44) a. *on siŋ=be thund-a=na*
 horse tree=LOC tie[3SG]-PST=NMLZ.SG
 ‘The horse was tied to the tree.’
 b. *babu=ŋa on siŋ=be thund-u=na*
 boy=ERG horse tree=LOC tie-3.P[PST]=NMLZ.SG
 ‘The boy tied the horse to the tree.’

The passive is typically employed when the transitive object is more salient than the subject in a particular section of discourse. In (45) from a narrative, the passive is not motivated by a topical patient, but by the unknown identity of the agent, as the whole sentence was uttered in surprise and all elements in it were equally new. The story is about a bride who wants to take some megaliths from her maternal home to her in-laws’ village. In the course of the narration, the girl has to solve various tasks and is confronted with many difficulties, but finally, she succeeds: one morning, the people from the in-laws’ village find one of the rocks in their village, rocks that actually belong miles further downhill. As they have no clue about how this happened, the passive is used to avoid reference to the agent in the utterance in (45).

- (45) *namthalun=be?=na* *luŋkhwak* *nhe* *ket-a-ma*,
 Namthalung_rock=LOC=NMLZ.SG stone here bring_up[3SG]-PST-PRF,
eko!
 one
 ‘The rock of Namthalung was brought here, one (of them)!’ [37_nrr_07.085]

The passive is also used when the speaker wants to be unspecific about the reference of the agent, comparable to using the indefinite pronoun *one* in English or *man* in German. In (46a), no overt A argument is possible. Distinct agreement and negation suffixes as well as the choice of the nonpast allomorph *-men* in (46a) (vs. *-wa*) show that the inflection is intransitive (compare with transitive (46b)). Note, however, that the form in (a) can also have a first person nonsingular A reading, discussed below in §11.3.1.3.

- (46) a. *i=ya=ca* *cok-ma* *n-ya-me-n=na*
 what=NMLZ.NC=ADD do-INF NEG-be_able[3SG]-NPST-NEG=NMLZ.SG
 ‘One cannot do anything (about it).’ OR
 ‘We cannot do anything (about it).’
 b. (*kaniŋ*) *i=ya=ca* *cok-ma*
 1PL[ERG] what=NMLZ.NC=ADD do-INF
n-yas-wa-m-nin=na
 NEG-be_able-NPST[3.P]-1PL.A-NEG.PL=NMLZ.SG
 ‘We cannot do anything (about it).’

There are several verb stems that are ambiguous between inchoative and passive readings when they are detransitivized, i.e. between argument structure modifying and argument structure preserving detransitivizations. This ambiguity is found for all events that can be conceptualized either with or without external causation, for instance *kept* ‘stick, glue’, *ek* ‘break’, *pek* ‘shatter’, *hos* ‘open’, *her* ‘dry’, *lond* ‘come/take out’. The context provides clues about whether an agent is implied or not. In (47), the ambiguity can be resolved by including an oblique-marked A argument to distinguish the passive in (a) from the ambiguous reading in (b).

- (47) a. *na* *jhyal* *phuaba=bhaŋ* *peg-a=na*
 this window last_born_male=ABL shatter[3SG]-PST=NMLZ.SG
 ‘This window was shattered by Phuaba (the youngest of the brothers).’
 b. *na* *jhyal* *imin* *peg-a=na?*
 this window how shatter[3SG]-PST=NMLZ.SG
 ‘How did this window break?’ OR
 ‘How was this window broken?’

Another way to distinguish inchoative from passive readings is the specification of the predicate by a second verbal stem (V2). In Section 11.2.1, it was mentioned that certain V2 in complex predicates are sensitive to transitivity. Some V2 occur only in inchoative readings, and thus they rule out a passive reading. Consider (48), and how the meaning changes from the caused motion of a liquid in (48a) and (48b) to spontaneous motion in (48c).

- (48) a. *chemha tuks-a=ha*
 liquor pour[3SG]-PST=NMLZ.NC
 ‘The liquor was poured.’
- b. *uŋ=ŋa khorek=pe maŋcwa tuks-u=ha*
 3SG=ERG bowl=LOC water pour-3.P[PST]=NMLZ.NC
 ‘He poured the water into the bowl.’
- c. *chemha tuks-a-khy-a=ha*
 liquor pour[3SG]-PST-V2.GO-PST=NMLZ.NC
 ‘The liquor spilled/ran over.’; NOT: *‘The liquor was poured.’

11.3.1.2 The antipassive detransitivization

The antipassive detransitivization, just like the passive, is expressed simply by intransitive inflection. Potential ambiguities are resolved by the context. Antipassives are found in many Kiranti languages, e.g. in Puma, in Chintang, in Belhare (Bickel 2011, Schikowski 2013), in Bantawa (Doornenbal 2009: 221ff.), and in Athpare (Ebert 1997: 122ff). In Yakkha, as in most Kiranti languages, the P argument may still be expressed overtly in the antipassive detransitivization. The P is in the nominative, just as it would be in transitive clauses, but the verb is inflected intransitively and agrees only with the agent, whose case marking changes from ergative to nominative.

The choice of this construction is related to the referential status of the P argument. If it is non-referential, indefinite or non-specific, the odds for the use of the antipassive are higher. General statements, for instance, tend to be in the antipassive. If one uses a detransitivized verb in a question as in (49), it will be understood as inquiring about the habit of a person, not as a question about a specific situation. This is why it is not possible to anchor this clause temporally (except for purposes of irony).

- (49) (**hen=go*) *chemha uŋ-meʔ=n=em*
 (*today=TOP) liquor drink[3SG]-NPST=NMLZ.SG=ALT
ŋ-uŋ-meʔ=n=em?
 NEG-drink[3SG]-NPST=NMLZ.SG=ALT

‘Does she drink raksi or not (*today)?’

If the statement is made rather about the manner of the event than about the result, the antipassive is likely to be used as well. Compare detransitivized *cokma* ‘do, make’ and *cekt* ‘talk, speak’ in (50a) and (51a) with the transitive uses in (50b) and (51b).²⁴

- (50) a. *khatniŋ=go liŋkha ekdam cog-a=nuŋ cog-a=nuŋ*
 but=TOP a_clan very do[3SG]-PST=COM do[3SG]-PST=COM
 ‘as the Linkha man worked and worked’ [11_nrr_01.008]
- b. *uŋ=ŋa na paŋ cog-uks-u=na*
 3SG=ERG this house do-PRF-3.P[PST]=NMLZ.SG
 ‘He has made this house.’
- (51) a. *menuka=le ucun=nuŋ ceŋ-meʔ=na*
 Menuka=CTR nice=COM speak[3SG]-NPST=NMLZ.SG
 ‘Menuka talks nicely!’
- b. *nnakha nak-se ŋ-gheʔ-me=hoŋ ceʔya n-jekt-wa*
 those ask-SUP 3PL-go-NPST=SEQ matter 3PL.A-speak-NPST[3.P]
 ‘After they go there to ask (for the girl), they discuss the matter.’
 [25_tra_01.007]

The antipassive is also found in procedural descriptions, as the speaker refers to general facts rather than to specific situations. Example (52a) provides a description of the long and highly formalized wedding procedure. It may also play a role whether an event has already been introduced in a text. In (51b), which was uttered shortly before (52a) in the same recording session, the verb *cekma* ‘talk’ is introduced with the transitive inflection and with an overt P argument *ceʔya* ‘matter’, but when it is taken up again, the detransitivized form is used and the object is omitted (see (52a)). Similarly, the stem *lend* ~ *lem* ‘exchange’ had been introduced in the transitive inflection and taken up in the intransitive form in (52a), but here the object *sala* cannot be omitted, for lexical reasons; the verb *sala lend* ‘discuss’ (lit. ‘exchange matters’) is a fixed expression, see (52b).

- (52) a. *kuʔuni=ci panca bhaladmi=ci jammai*
 matchmaker=NSG an_official_rank respected_elder=NSG all
sala n-lem-me, n-jeŋ-me
 matter 3PL-exchange-NPST, 3PL-talk-NPST
 ‘The matchmakers, the officials, the respected elders, all discuss, they talk.’ [25_tra_01.017]

²⁴The stem alternations in (b) are phonologically triggered; they do not encode transitivity.

- b. *η-khaep cim=nun sala*
 2SG.POSS-interest be_satisfied=COM matter
lend-u-ga-i!
 exchange-3.P[IMP]-2=EMPH
 ‘Talk until you are satisfied!’

As for three-argument verbs, in the double object class either T or G can be demoted. Example (53a) shows a clause where the G argument is demoted, and (53b) shows a clause where the T argument is demoted.

- (53) a. *nhe maŋcwa m-bi-me-n=ha*
 here water NEG-give[3SG]-NPST-NEG=NMLZ.NSG
 ‘They do not serve water here.’ (T → P)
- b. *nhe ghak m-bi-me-n=ha, yan kap-khuba*
 here all NEG-give[3SG]-NPST-NEG=NMLZ.NSG, money own-NMLZ
se=ppa
 RESTR=EMPH
 ‘They do not serve everyone here, only the rich people.’ (G → P)

As already mentioned, there is also the option to retain the demoted argument in a detransitivized clause (see example (49) above). In (54), the noun phrase *kulpitrici* has a generic reading, similar to incorporated nouns, but the noun can still be inflected for nonsingular.

- (54) *ochon=ha cayonwa pahile kulpitri=ci m-bim-me*
 new=NMLZ.NC food at_first ancestor=NSG 3PL-give-NPST
 ‘They give the new food to the ancestors at first.’ [01_leg_07.137]

Actually, this clause is ambiguous between passive and antipassive reading. This example could as well mean ‘The ancestors are given the new food at first’. The interpretation has to be inferred from the context. In this particular example, *kulpitrici* was not yet active in discourse. The word order, too, speaks against the topicality of this constituent and the passive interpretation. The plural agreement on the verb is triggered by the (non-overt) A argument that does not change throughout the text: *yakkhaci* ‘the Yakkha people’. Ambiguities between passivized and antipassivized clauses in Yakkha are always encountered when both A and P have third person, the same number features and are both equally low in referential salience. Consider the verb *kheps ~ khem* ‘hear, listen’ in (55), for example. Both verb forms are inflected intransitively, but (55a) is a passive, while (55b) is an antipassive.

Another regularity noticed is that since antipassives often express generic statements about the world as such, they tend to be in the nonpast, while passives more often occur with past morphology.

- (55) a. *ce?ya kheps-a-m=ha*
 matter hear[3SG]-PST-PRF=NMLZ.NC
 ‘The matter has been heard.’ [18_nrr_03.004]
- b. *Dilu reqio khem-me?=na?*
 Dilu radio hear[3SG]-NPST=NMLZ.SG
 ‘Does Dilu listen to the radio (generally)?’

A phenomenon that is related to the antipassive detransitivization is the frequent omission of nonsingular marking on nouns generally, and the omission of a verbal plural marker for S and P arguments (see also Chapter 5.2.1.1). The nouns in (56a) are not marked for plural, which does not generally prevent them from triggering plural agreement on the verb in Yakkha.²⁵ The verb shows object agreement with the nouns, but the suffix *-ci* referring to the plural number is missing. The full form would be *yogamacuci*. The agreement is not missing because the reference is singular, but because the nouns are non-referential. The predicate refers to the general activity of porcupine hunting and pangolin hunting, and it is not even clear yet if the hunt will be successful in this particular case. The same effect is found for agreement with S arguments in intransitive verbs, shown in (56b). The fully inflected verb form would be *ngammehaci*, but the verb here functions as a marker of evidentiality, woven into a narration in order to release the speaker of being fully responsible for the content of the utterance, and thus the A of the verb has no clear reference.

- (56) a. *yakpuca yog-a-ma-c-u, phusa*
 porcupine look_for-PST-PRF-DU.A-3.P, pangolin
yog-a-ma-c-u
 look_for-PST-PRF-DU.A-3.P
 ‘They (dual) looked for porcupines, they looked for pangolins (but did not hunt any.)’ [22_nrr_05.015]
- b. *manman-minmin m-maks-a-by-a-ma*
 amazed-ECHO 3PL-be_surprised-PST-V2.GIVE-PST-PRF
η-gam-me=pa
 3PL-say-NPST=EMPH

²⁵If a noun is not marked for plural, it may still trigger plural agreement on the verb. The only constraint found for the relatively freely organized agreement in Yakkha is that when the noun has plural marking, it has to trigger plural marking in the verb, too.

‘They (plural) were utterly surprised, people say.’ [22_nrr_05.031]

11.3.1.3 Syncretisms of detransitivization and 1NSG reference

Both the passive and the antipassive may have a second reading, with the omitted argument having first person nonsingular reference. Thus, the passive construction may also refer to 1NSG A arguments, while the antipassive construction may refer to 1NSG P arguments. This system is slowly replacing the older, more complex verbal person marking for first person nonsingular arguments. When speakers are confronted with the detransitivized forms out of the blue, usually the first interpretation that is offered is the one with first person nonsingular arguments, and not with generic arguments.

As for the antipassive forms, the detransitivized verbal inflection is in many cases already identical to the forms with 1NSG P reading; it has replaced various formerly present markers for 1NSG P argument (see Table 11.1, and Table 8.12 in Chapter 8.2). Given that the nominalizing clitics =*na* and =*ha* are optional markers, the intransitive forms with 2sg and 3sg S arguments are identical to most of the transitive forms with first person P argument (the shaded cells in Table 11.1). The same syncretism is found in the imperative forms (also shown in Table 11.1).

The only way to formally differentiate between the antipassive and first person P arguments is the presence of an ergative-marked A argument in transitive active clauses, as shown in (57). As overtly realized arguments are rare, the only element that could distinguish the two constructions is often missing.

- (57) a. *cyaŋkuluŋ=ci=ŋa tuʔkhi m-bi-me-n*
 ancestral_god=NSG=ERG pain NEG-give[3A;1.P]-NPST-NEG
 ‘The ancestors will not make us suffer.’ [01_leg_07.117]
- b. *uŋci=ŋa phophop=na sumphak=pe=se camyoŋba*
 3NSG=ERG upside_down=NMLZ.SG leaf=LOC=RESTR food
pim-me=ha mit-a-ma-ci
 give[3A;1.P]-NPST=NMLZ.NSG think-PST-PRF-DU
 ‘They (dual) thought: They only give us the food in an upside-down leaf plate.’ [22_nrr_05.053]

The only way to formally differentiate between the antipassive and first person P arguments is the presence of an ergative-marked A argument in transitive active clauses, as shown in (58). As overtly realized arguments are rare, the only element distinguishing the two constructions is often missing.

A>P	1SG	1NSG	INTRANSITIVE	
INDICATIVE				
1SG	(reflexive)		-ŋ(=na)	
1DU.EXCL			-ci-ŋ(=ha)	
1PL.EXCL			-i-ŋ(=ha)	
1DU.INCL			-ci(=ha)	
1PL.INCL			-i(=ha)	
2SG	-ŋ-ka(=na)		-ka(=na)	
2DU	-ka(=ha)		-ci-ka(=ha)	
2PL			-i-ka(=ha)	
3SG	-ŋ(=na)		(=na/=ha)	
3DU	(=ha)		-ci(=ha)	
3PL			n-...(=ha=ci)	
IMPERATIVE				
2SG	-aŋ		-a	
2DU	-a		-a-ci	
2PL			-a-ni	

Table 11.1: Antipassive-1NSG.P syncretisms

- (58) a. *cyankuluŋ=ci=ŋa tuʔkhi m-bi-me-n*
 ancestral_god=NSG=ERG pain NEG-give[3A;1.P]-NPST-NEG
 ‘The ancestors will not make us suffer.’ [01_leg_07.117]
- b. *uŋci=ŋa phophop=na sumphak=pe=se camyoŋba*
 3NSG=ERG upside_down=NMLZ.SG leaf=LOC=RESTR food
pim-me=ha mit-a-ma-ci
 give[3A;1.P]-NPST=NMLZ.NSG think-PST-PRF-DU
 ‘They (dual) thought: They only give us the food in an upside-down leaf plate.’ [22_nrr_05.053]

The lack of agreement marking for certain participants in a language with otherwise abundant agreement morphology is suspicious and calls for an explanation. Considering the broader Kiranti perspective, the equation of generic or indefinite reference with first person undergoers developed independently in many Eastern Kiranti languages, with different morphological realizations. In Puma, a Southern-Central Kiranti language, the antipassive is marked by the prefix *kha-*, and this marker is also found as regular 1nsg P agreement prefix. Bickel & Gaenszle (2005: 6) note further that indefinite pronouns and generic nouns with the meaning ‘people’ have developed into first person patient markers in Limbu and Belhare.

Bickel and Gaenszle suggest a functional motivation. The speaker, in the patient role, downplays or minimizes the reference to himself, as a politeness strategy. Bickel and Gaenszle, for the (geographically) Southern Kiranti languages, relate this to contact with the Maithili (Indo-Aryan) speaking Sena principalities in the 17th-18th centuries.²⁶ In the course of this contact, Hindu religion and custom had a strong impact on Kiranti traditions and languages (see also Gaenszle et al. (2005) on Chintang). The intensive contact with spoken and written Maithili probably introduced formal registers with grammaticalized honorific distinctions, which the Kiranti languages were lacking. Thus, the speakers resorted to the strategy of identifying first person with indefinite reference. Particularly striking is also the exclusive choice of the patient role for this equation, throughout the Central and Eastern Kiranti languages (except for Yakkha, where this strategy got extended to A arguments, too). Bickel and Gaenszle explain this with the sensitive role of

²⁶The alliances of Kirat (Kiranti) kings and Sena kings began in Makwanpur, and were later extended eastward to Vijayapur. Kiranti military power probably helped the Sena rulers to defend their rule against others, e.g. the Mughals. Kiranti chiefs also acted as judicial officers in Vijayapur (Pradhan 1991: 76ff).

patients, especially recipients, in Kiranti societies.²⁷ As the Yakkha territory is located to the north of the core contact zone, this pattern must have spread from the south into the Yakkha speaking areas.

The equation of a passive interpretation with a first person agent is, to my knowledge, not a Kiranti-wide pattern, although one can easily imagine that it has developed in analogy to the antipassive equation. In (59), the detransitivized clause can have two interpretations.

- (59) *kisa sis-a=na*
 deer kill[3SG]-PST=NMLZ.SG
 ‘The deer was killed./We killed the deer.’

The passive interpretation is generally less accessible, the default interpretation in such cases implies a first person nonsingular A argument. The passive was even completely rejected in (60a). Instead, speakers offered (60b), with a first person nonsingular A argument. Note that the ablative marking on A is optional.²⁸ Just as in the antipassive, the downgraded argument can still be overt, but it does not trigger verbal agreement. The motivation for downgrading the first person participant is probably the same politeness strategy as in the antipassive: omission of explicit reference to 1nsg person by agreement markers, without changing anything else in the structure. Another example is provided in (60c).

- (60) a. **Numa u-ppa=bhan tablik*
 Numa 3SG.POSS-father=ABL story
lut-a-by-a=na.
 tell[3SG]-PST-V2.GIVE-PST=NMLZ.SG
 Intended: ‘Numa was told a story by her father.’
 b. *Numa kaniṇ(=bhan) tablik lut-a-by-a=na*
 Numa 1PL(=ABL) story tell[3SG]-PST-V2.GIVE-PST=NMLZ.SG
 ‘Numa was told a story by us.’ OR ‘We told Diana a story.’
 c. *hoṇma yokha?la chekt-haks-a=na.*
 river across block[3SG]-V2.SEND-PST=NMLZ.SG
 ‘We redirected the river.’

The passive politeness construction is definitely younger than the antipassive politeness construction, as the antipassive forms already made into the standard verbal inflection for first person patients (see Chapter 8.4.6 for paradigm tables).

²⁷Exchanging gifts, money and alcoholic beverages is formalized in weddings and funerals; and has a social function.

²⁸The verb is *lumbi?ma* ‘tell’, a benefactive of ‘tell’. Derived transitives do not behave differently from non-derived transitives, at least not with regard to the passive construction.

Marginally, one can find different, more complex forms in these paradigm cells, with overt agreement markers for all participants, especially in the generation of older speakers. But speakers always pointed out that the less complex forms are more common, and this is also borne out by the corpus data. In a paper by Gvozdanović (1987: 425), who made the first agreement paradigm of Yakkha available, the first person patient forms still distinguish singular, dual and plural number of both A and P (cf. Chapter 8.2 for the details). Apparently, these forms got replaced by the less explicit politeness forms, as they were semantically bleached due to overuse. The antipassive became the default form to indicate first person P arguments. One could speculate whether the same is going to happen with the passive forms, as the passive already seems to be the less salient interpretation for these forms.

11.3.2 The causative construction

Causatives are constructed morphologically, by attaching the suffix *met ~ me?* to the stem of the lexical verb. The marker has developed from a lexical verb *met* ‘make, do, apply’, in the same way as in other Kiranti languages (Limbu, Puma, Bantawa, Chintang, see van Driem (1987), Bickel et al. (2006), Doornenbal (2009)); in Yakkha its lexical meaning got narrowed down to ‘tie cloth around the waist’.

Both direct and indirect causation can be expressed by the causative. The causative marker is only used to introduce an animate causer to the verb frame, never inanimate causes such as weather phenomena, illnesses and other circumstances. The intentionality of the causer, however, is not relevant in the Yakkha causative formation. With some verbs the causative marker is found to have an applicative function, where instead of a causer, a P argument is added to the argument structure (discussed further below).

The causative derivation applies to both intransitive and transitive verbs, deriving minimally a monotransitive predicate. The S/A argument of the underived predicate becomes the P argument of the causative predicate, while a causer is added and becomes the A argument in the causative construction. The causer triggers subject agreement accordingly, and is marked by the ergative case. In (61), as the role of the tiger changes from stimulus to causer, the case marking changes from oblique in (a) to ergative in (b).

- (61) a. *hari kiba=nun kisit-a=na*
 Hari tiger=COM be_afraid-PST[3SG]=NMLZ.SG
 ‘Hari was afraid of the tiger.’

- b. *kiba=ŋa hari kisi-met-u=na*
 tiger=ERG Hari be_afraid-CAUS-3.P[PST]=NMLZ.SG
 ‘The tiger frightened Hari.’

Arguments (other than the causer) retain their respective cases (nominative, instrumental, locative), so that the causative derivation yields different three-argument frames. The standard monotransitive frame (with the P argument in the nominative) results in the double object frame in the causative, with the former A becoming the G argument and the P becoming the T (outlined in Figure 11.2 and illustrated by (62)).

UNDERIVED	CAUSATIVE
	A
S/A →	P/G
P →	T

Figure 11.2: Mapping of roles in the causative derivation

- (62) a. *ka photo soʔ-wa-ŋ=na*
 1SG[ERG] photo look-NPST[3.P]-1SG.A=NMLZ.SG
 ‘I will look at the photo.’
 b. *ka nda photo soʔ-meʔ-me-nen=na*
 1SG[ERG] 2SG photo look-CAUS-NPST-1>2=NMLZ.SG
 ‘I will show you the photo./ I will make you look at the photo.’

More examples of causatives resulting in double object constructions are provided in (63). All of them illustrate that the causer triggers subject agreement and the causee triggers object agreement on the verb.

- (63) a. *uŋ=ŋa ka chem luʔ-met-a-ŋ=na*
 3SG=ERG 1SG song tell-CAUS-PST-1SG.P=NMLZ.SG
 ‘He made me sing a song.’
 b. *ka mim-meʔ-me-nen=na*
 1SG[ERG] remember-CAUS-NPST-1>2=NMLZ.SG
 ‘I will remind you.’
 c. *ŋkha yapmi=ci koi namphak si-met-uks-u-ci,*
 those person=NSG some wild_boar kill-CAUS-PRF-3.P[PST]-3NSG.P
 ‘Those people, (he) made some of them hunt wild boar, ...’

[27_nrr_06.033]

If the underived verb is a motion verb, the causative results in a three-argument construction of the indirective frame, with the G in the locative case.

- (64) a. *a-kamnibak ten=be tas-u=na*
 1SG.POSS-friend village=LOC arrive-3.P[PST]=NMLZ.SG
 ‘My friend arrived in the village.’
 b. *m-baŋ=be ta-met-i*
 2SG.POSS-house=LOC arrive-CAUS-COMPL[3.P;IMP]
 ‘Deliver it (the rock) at your home.’ [37_nrr_07.011]

If the causative is applied to non-canonically marked constructions such as they are found in the expression of experiential events, the experiencer becomes the causee. Experiencers can be coded as standard objects (shown in (65a)). Despite this non-canonical marking, the experiencer becomes the causee and triggers object agreement in the causative construction (see (65b)). The stimulus, formally identical to A arguments in the non-causative predicate, is in the instrumental case and does not trigger agreement in the causative.²⁹ Thus, in causatives of the object experiencer construction, nothing changes for the experiencer; it remains the argument that is coded as object.³⁰

- (65) a. *siŋ=ŋa ŋ-khot-a-ŋa-n=na*
 fire_wood=ERG NEG-have_enough-PST-1SG.P-NEG=NMLZ.SG
 ‘I do not have enough fire wood.’
 b. *ka uŋci cama=ŋa*
 1SG[ERG] 3NSG food=INS
kho?-met-wa-ŋ-ci-ŋ=ha
 have_enough-CAUS-NPST[3.P]-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I serve them food.’ (lit. ‘I make them have enough food.’)

In the possessive experiencer construction, the experiencer does not even trigger agreement in the underived verb (see (66a)), but is still treated as object by the verbal agreement of the causative verb in (66b). Thus, the causative shows that the morphosyntax of Yakkha is not sensitive to case marking or agreement, but to generalized semantic roles. As the experiencer is the A in (65) and the S in (66), it becomes the causee in the respective causative constructions.

²⁹The instrumental is homophonous with the ergative, but it is clearly not an ergative here, in the classical definition of marking an A as opposed to S and P.

³⁰Marginally, the right context provided, interpretations with the stimulus as the causee are also possible, e.g. *tailorŋa tek khopmetuha* ‘The tailor made the fabric be enough’ (i.e. he cut the pieces carefully.)

- (66) a. *a-sokma hips-a-by-a=na*
 1SG.POSS-breath thrash[3SG]-PST-V2.GIVE-PST=NMLZ.SG
 ‘I am annoyed.’
- b. *khem=nun rajiv=ηa a-sokma*
 Khem=COM Rajiv=ERG 1SG.POSS-breath
him-met-a-g=ha!
 whip-CAUS-PST-2.A[1.P]=NMLZ.NSG
 ‘Khem and Rajiv(, you) annoy me!’

Some causatives have idiomatic, lexicalized meanings, such as the verb *yok-me?ma* ‘tell about something, make someone curious’. The lexical meaning of *yokma* is ‘search’. Another instance is *incame?ma* ‘play with something’. Literally, it translates as ‘make something revolve for fun’ (see (67)).

- (67) a. *mun?ri caram=be i-ca-ya=na*
 Mungri yard=LOC revolve-V2.EAT-PST[3SG]=NMLZ.SG
 ‘Mungri played in the yard.’
- b. *kha?la (nasa) in-ca-met-uks-u-η=nin*
 like_this (fish) revolve-V2.EAT-CAUS-PRF-3.P[PST]-1SG.A=CTMP
 ‘while I played (with the fish) like this’ [13_cvs_02.026]

Some instances of causative morphology have applicative interpretations. The argument added is not a causer, but an object. Consider (68), where no specific causee argument can be identified, as the interpretation of (68b) is not ‘she makes her spread the umbrella’. The causative here is used to distinguish whether an action is performed on oneself or on another participant. The underived verb *hamma* ‘spread over’ always refers to covering oneself, and not to spreading something at another location. A second factor might be the pragmatic saliency and frequency of the causative-marked event. Covering a person with a blanket or umbrella is performed more often than encouraging the person to cover oneself.³¹ Another verb following this pattern is *wa?mepma* ‘dress someone/ help to put on clothes’ (see (68c)). The causative construction, in such cases, indicates the causation of a state (being dressed, being covered).

- (68) a. *ka phopma haps-wa-η=na*
 1SG[ERG] blanket spread-NPST[3.P]-1SG.A=NMLZ.SG
 ‘I cover myself with a blanket.’

³¹Spreading an umbrella over the bride and groom is an integral component of the wedding ceremony.

- b. *beuli=ga=ca u-nuncha parne=ŋa chata*
 bride=GEN=ADD 3SG.POSS-younger_sibling falling=ERG umbrella
ham-met-wa
 spread-CAUS-NPST[3.P]
 ‘Equally, a younger sister of the bride spreads an umbrella (over the bride).’ [25_tra_01.053]
- c. *ka a-nuncha tek*
 1SG[ERG] 1SG.POSS-younger_sibling cloth
waʔ-met-u-ŋ=na
 put_on-CAUS-3.P[PST]-1SG.A=NMLZ.SG
 ‘I helped my younger sister to get dressed./ I dressed my younger sister.’

The causative of the transitive verb *koʔma* ‘walk (from place to place)’ also deviates from the classic causative function. The meaning of *koʔmeʔma* is ‘walk someone around’, i.e. not just making someone walk but actually walking with them and guiding them (see (69)).

- (69) *ka a-kamniwak=ci*
 1SG[ERG] 1SG.POSS-friend=NSG
koʔ-met-wa-ŋ-ci-ŋ=ha
 walk-CAUS-NPST-1SG.A-NSG.P-1SG.A=NMLZ.NSG
 ‘I walked my friends around.’

The verbs derived by the causative behave identical to simple stems in most respects. The A argument can be a privileged syntactic argument in constructions that select S/A pivots. It can, for instance, undergo a participant nominalization with the nominalizer *-khuba*, that derives nouns or noun phrases with the role of S or A (70).

- (70) a. *cok-khuba*
 do-NMLZ
 ‘doer, someone who does (something)’
 b. *hiʔwa=be camyɔŋba ca-mek-khuba*
 wind=LOC food eat-CAUS-NMLZ
 ‘someone (a bird) who feeds (his children) in the air’ [21_nrr_04.003]

11.3.3 The benefactive construction

The benefactive is marked by the suffix *-t*³² attached to the lexical root and by the V2 *-pi?* ‘give’, resulting in a complex predicate that has a beneficiary argument in addition to the arguments of the lexical verb. The suffix *-t* is usually added to yet unaugmented stems such as *cok* ‘do’ or *so?* ‘look’ (becoming *cokt* and *sot*, respectively). Stems with an augmented *-s*, however, do not provide a coherent picture. The stems with the bilabial stop in the coda, like *haps* ‘spread, distribute’ and *tups* ‘meet, find’, do not host the suffix *-t* in the benefactive derivation, but stems with the velar stop in the coda, like *leks* ‘overturn’ and *haks* ‘send’, for instance, change to *lekt* and *hakt*. More examples are necessary to find out if this is a phonological regularity. Hence, the use of this suffix is both functionally and phonologically conditioned. Adding *-t* to the lexical stem in the benefactive could be a strategy to distinguish the benefactive from the other uses of the V2 *pi?* (discussed in Chapter 10.2.1).

The addition of a beneficiary argument changes the marking and behavioral properties of a verb. The beneficiary is promoted to an argument; it is in the unmarked nominative case and triggers object agreement, illustrated by (71). Both intransitive and transitive verbs can undergo the benefactive derivation (see (71)). The latter result in double object constructions.

- (71) a. *ceŋ* *pok-t-a-by-a-ŋ* *lu-ks-u*
 upright stand_up-BEN-IMP-V2.GIVE-IMP-1SG.P tell-PRF-3.P[PST]
 ‘Stand upright for me, he told him.’ [27_nrr_06.18]
- b. *ka* *chem* *lu-t-a-by-a-ŋ*
 1SG song tell-BEN-IMP-V2.GIVE-IMP-1SG.P
 ‘Sing me a song.’

If the beneficiary has nonsingular number, it also triggers the third person nonsingular agreement with object arguments that is typically found on infinitives with deontic reading.³³

- (72) *yenda* *taŋ-bi?-ma=ci*
 millet_mash take_out-V2.GIVE-INF[DEONT]=NSG
 ‘The millet mash (for brewing beer) has to be taken out for them.’

³²This marker is a remnant of a formerly productive Proto-Tibeto-Burman transitivizing suffix. Apart from its employment in the benefactive function, this marker is not productive in Yakkha; it has been re-analyzed as part of the stem in Kiranti languages in general, see Chapter 8.1.

³³See Chapter 15.1.7.

Example (73) is a nice semantic minimal pair illustrating that the benefactive is inappropriate in non-benefactive contexts. While in (73a) the benefactive derivation of the stem *haps* ‘spread, distribute’ is possible and necessary, in (73b) the verb has to be used without the benefactive derivation. The G argument *ten-ten* ‘villages’ in (73a) gains something from the event of distributing, which is not the case for the G argument *klas-ci* ‘classes’ in (73b). Furthermore, this example shows that the benefactive derivation does not necessarily change the argument realization of a verb that already has three arguments.

- (73) a. *sarkar=ŋa yaŋ ten-ten=be*
 government=ERG money village-REDUP=LOC
ŋ-haps-u-bi-ci=ha
 3PL.A-distribute-3.P[PST]-V2.GIVE-NSG.P=NMLZ.NSG
 ‘The government (plural) distributed the money among the villages.’
- b. *uŋci=ŋa piča=ci klas=ci=be*
 3NSG=ERG child=NSG class=NSG=LOC
ŋ-haps-u-ci=ha
 3PL.A-distribute-3.P[PST]-NSG.P=NMLZ.NSG
 ‘They distributed the children among the classes.’

The events denoted by the benefactive derivation do not necessarily happen to the advantage of the ‘beneficiary’, as (74) shows. The crucial semantic component of the benefactive is a volitional, intentional agent, acting in order to bring about an event that affects the ‘beneficiary’, either in desirable or in undesirable ways. Example (74) also offers insight into the morphological structure of complex predicates. The benefactive applies to an already complex predicate, consisting of the lexical stem *pek* ‘shatter’ and the V2 *-haks* ‘send’ (which adds a notion of irreversibility to the meaning of the lexical verb). However, the existing complex structure is not opaque to the derivational morphology, as the benefactive suffix *-t* attaches to both stems.

- (74) a. *ak=ka pek-t-hak-t-a-by-a-ŋ=na*
 1SG.POSS=GEN shatter-BEN-V2.SEND-BEN-PST-V2.GIVE-PST-1SG.P=NMLZ.SG
lo?wa, nna=ga=ca
 as, that=GEN=ADD
pek-t-hak-t-u-bi-wa-ŋ=ha
 shatter-BEN-V2.SEND-BEN-3.P-V2.GIVE-NPST-1SG.A=NMLZ.NSG
 ‘As he destroyed mine, I will also destroy his (house, family etc.)’
 [21_nrr_04.029]

- b. *eko yapmi=ga o-keŋ*
 one person=GEN 3SG.POSS-tooth
en-d-hak-t-u-bi=na
 uproot-BEN-V2.SEND-BEN-3.P-V2.GIVE[3.P;PST]=NMLZ.SG
 ‘He pulled out some man’s tooth.’

Two examples from a narrative are provided in (75). The beneficiary here has first person nonsingular reference, and is thus not indexed on the verb by overt markers (cf. Chapter 8.2 on person marking).

- (75) a. *aniŋ=ga khaʔla=na piccha=ca*
 1PL.EXCL.POSS=GEN in_this_way=NMLZ.SG child=ADD
tups-a-by-a-ga
 find-PST-V2.GIVE-PST-2[1.P]
 ‘You also found (this) our daughter for us.’ [22_nrr_05.115]
- b. *kanciŋ nakt-a-ŋ-c-u-ŋ=na=cen ina*
 1DU ask_for-PST-EXCL-DU.A-3.P.PST-EXCL=NMLZ.SG=TOP what
baŋniŋ, na phophop=na sumphak cillen
 TOP, this upside_down=NMLZ.SG leaf facing_up
lek-t-a-by-a,
 overturn-BEN-IMP-V2.GIVE-IMP[1.P]
 ‘As for what we asked you for: this overturned leaf plate, turn it on the right side for us.’ [22_nrr_05.126-7]

The beneficiary does not only trigger agreement on the verb. Plenty of examples show that the benefactive verb can undergo the reciprocal derivation³⁴ when an action is performed bidirectionally, and the (minimally) two participants have each the role of agent and beneficiary/maleficiary, as shown in (76).

- (76) a. *piccha=ci caram phen-bi-khusa*
 child=NSG yard sweep-V2.GIVE-RECIP
ca-me-ci=ha
 eat.AUX-NPST-[3]DU=NMLZ.NSG
 ‘The children sweep the yards for one another.’³⁵
- b. *kanciŋ moja pham-bi-khusa ca-me-ci=ha*
 1DU sock knit-V2.GIVE-RECIP eat.AUX-NPST-[1]DU=NMLZ.NSG
 ‘We knit socks for each other.’

³⁴The reciprocal is constructed by the suffix *-khusa* attached to the (last) stem of a verb and the verb *cama* ‘eat’ as auxiliary. Although the reciprocal derivation of a benefactive predicate still has two arguments, the person inflection in the reciprocal construction always shows the intransitive morphology.

³⁵First person dual inclusive and third person dual are identical in intransitively inflected verbs.

- c. *anciŋ-cuwa=ci* *uk-nim-bi-khusa*
 1DU.EXCL.POSS-beer=NSG drink-COMPL-V2.GIVE-RECIP
ca-ya-ŋ-ci-ŋ=ha
 eat.AUX-PST-EXCL-DU-EXCL=NMLZ.NSG
 ‘We (dual, exclusive) accidentally drank out each other’s beer!’

An operation that is not available for verbs derived by the benefactive is reflexivization. Expressing propositional content such as in (77) by the form **thum-bi-ca-me-ŋ=na* is ungrammatical. The semantics of the Yakkha benefactive entail that the benefactor and the beneficiary must not have the same reference. The expression of actions for oneself can be achieved simply by attaching the reflexive morphology (the V2 *-ca*) to the verb stem, without prior benefactive derivation (cf. also §11.3.4).

- (77) *kurta* *thun-ca-me-ŋ=na*
 long_shirt sew-V2.EAT-NPST-1SG=NMLZ.SG
 ‘I sew a *kurta* for myself.’

11.3.4 The reflexive construction

Yakkha does not have reflexive pronouns. The reflexive is constructed by a complex predicate with the V2 *-ca* ‘eat’. It indicates that the A and P argument of the predicate have identical reference. The resulting verb gets detransitivized with regard to case and person marking, as shown in (78). This construction can only express complete coreferentiality, propositions like ‘I saved us’ cannot be expressed in Yakkha, neither by the verbal morphology nor by the reflexive derivation. The various other functions of this V2 are treated in Chapter 10.2.3. Apart from reflexive constructions, it also occurs in many lexicalized predicates with classical middle semantics, such as grooming and social interactions. Some of the labile verbs that are discussed in §11.2.1 also show reflexive semantics when they are inflected intransitively, without attaching the reflexive marker.

- (78) *nda* (*aphai*) *moŋ-ca-me-ka=na*
 2SG (self) beat-V2.EAT-NPST-2=NMLZ.SG
 ‘You beat yourself.’

The examples below show that the reflexive can also apply to a quantified noun phrase (79a), to a question pronoun (79b), and to negated propositions (79c). There are no dedicated negative pronouns in Yakkha; negation is constructed by a question pronoun with the additive focus clitic *=ca* and verbal negation markers. In irrealis (question and negation) contexts, both singular and nonsingular inflection

is possible, depending on the potential referents that the speaker has in mind (or what the speaker assumes the addressee has in mind).

- (79) a. *ghak sar n-so-ca-ya*
all teacher 3PL-look-V2.EAT-PST
'All teachers looked at themselves.'
- b. *isa u-chik ekt-a-ca-ya=na*
who 3SG.POSS-hate make_break[3SG]-PST-V2.EAT-PST=NMLZ.SG
'Who is angry at himself?'
- c. *isa=ca n-so-ca-ya-n=ha=ci*
who=ADD NEG-look-V2.EAT-PST-NEG=NMLZ.NSG=NSG
'Noone looked at themselves.'

In three-argument verbs, there are two potential candidates for coreference with A. Whether A controls G or T is a matter of the original frame of the verb. For double object verbs, coreference with T is ungrammatical (see (80a)), while coreference with G is fine (see (80b)).³⁶ It is not possible for T and G to be coreferential in the reflexive derivation, i.e. to express propositions like 'I showed him to himself (in the mirror)'.

- (80) a. **ka ama (aphai photo=be)*
1SG[ERG] mother (self photo=LOC)
so?men-ca-me-η=na
show-V2.EAT-NPST-1SG=NMLZ.SG
Intended: 'I show myself to mother (on the photo).'
- b. *ka (aphai) coklet pin-ca-me-η=na*
1SG[ERG] (self) sweet give-V2.EAT-NPST-1SG=NMLZ.SG
'I give myself a sweet.'

As for three-argument verbs of the indirective frame, A can be coreferential with the argument in the nominative. This is illustrated by the verb *thumma* 'tie to'. In (81a) the frame is shown for comparison. Example (81b) shows the reflexive, where the locative G argument is retained and the nominative T argument is coreferential with A, and thus unexpressed. The A argument changes its case marking from ergative to nominative.

- (81) a. *a-ppa=ηa on siη=be thund-u=na*
1SG.POSS-father=ERG horse tree=LOC tie-3.P[PST]=NMLZ.NSG

³⁶It seems crosslinguistically unexpected that the coreference of A and G is accepted, while the coreference of A and T is ungrammatical. Kazenin states the implicational universal that '[...] if a language allows verbal marking of indirect reflexives, it allows verbal marking of direct reflexives as well.' Kazenin (2001: 918).

‘My father tied the horse to the tree.’

- b. *a-nuncha* *siŋ=be* *thun-ca-meʔ=na*
 1SG.POSS-younger_sibling tree=LOC tie-V2.EAT[3SG]-NPST=NMLZ.SG
 ‘My brother ties himself to a tree.’

Reflexivization is also possible with verbs of the Experiencer-as-Possessor frame (cf. §11.1.10, §9.2), as shown above in example (79b).

In complex sentences, e.g. in embedded complement clauses, the reflexive V2 can mark the main verb, although the reflexive semantics actually apply to the predicate in the embedded clause (see (82)).³⁷ This is however only possible in the type of complement construction that embeds infinitives, where the embedded and the main clause S/A argument are necessarily coreferential.³⁸

- (82) *uŋ=ŋa* *photo* *cok-ma* *min-ca-meʔ=na*
 3SG=ERG photo make-INF want-V2.EAT[3SG]-NPST=NMLZ.SG
 ‘She wants to take a photo of herself.’

11.3.5 The reciprocal construction

The reciprocal is constructed by attaching the suffix *-khusa* to the stem of the lexical verb and employing the verb *cama* ‘eat’ as auxiliary (see (83a)). The lexical verb and the auxiliary have to be adjacent, but the degree of morphological fusion is lower than in the reflexive construction and complex predication in general. Inflectional prefixes attach to the auxiliary, not to the lexical verb. As the reciprocal expresses mutual actions, it is characterized by at least two participants that both simultaneously have the role of actor and undergoer. The reciprocal participants are fused into one noun phrase. The construction only applies to transitive verbs, and it always formally detransitivizes the predicate, by assigning the nominative case to the A arguments and by inflecting the auxiliary intransitively, even when the lexical verb is a three-argument verb, as in (83b): here, the G argument is coreferential with A and hence it is omitted, while the T remains on the surface, retaining the case marking of its frame of argument realization (unmarked nominative in the double object frame). Contexts where reciprocals of double object verbs have coreferential A and T arguments are hard to imagine, and those proposed were rejected (see ungrammatical (83c)).

³⁷The complement-taking predicate *miʔma* means ‘want’ when it takes infinitival complements; its meaning in other constructions is ‘hope, like, think’ (see also Chapter 15).

³⁸Note that the ergative on A is retained in this construction, which suggests that the A argument belongs to the embedded transitive clause (a case of backward control).

Inherently reciprocal verbs such as *tupma* ‘meet’, *tuma* ‘fight’, *khima* ‘quarrel’ and *cunma* ‘wrestle’ are intransitive in Yakkha; they do not permit the reciprocal operation.

- (83) a. *kanciŋ* [...] *sok-khusa=se* *ca-ya-ŋ-ci-ŋ*
 1DU [...] look-RECIP=RESTR eat.AUX-PST-EXCL-DU-EXCL
 ‘We (dual, excl) just looked at each other.’ (A=P) [40_leg_08.070]
- b. *kanciŋ* *phuŋ* *pi-khusa* *ca-me-ci=ha*
 1DU flower give-RECIP eat.AUX-NPST-1DU=NMLZ.NSG
 ‘We (dual, incl) give flowers to each other.’ (A=G)
- c. **kanciŋ* *ama(=be)* *so?mek-khusa* *ca-me-ci=ha*
 1DU mother(=LOC) show-RECIP eat.AUX-NPST-[1]DU=NMLZ.NSG
 Intended: ‘We showed each other to mother (e.g. on a photo).’ (*A=T)

The antecedent of the coreferential argument always has to be the agent, as with the reciprocal of *nis* ‘see, know’, yielding ‘introduce, get to see/know each other’ in (84a). Coreferential T and G are possible, however, when the causative marker *-met* is attached to the auxiliary, so that the reciprocal construction serves as input to a causative construction (see (84b)). The arguments that are fused into one noun phrase are the A and P arguments of the reciprocal construction, and simultaneously they are T and G arguments of the causative construction *nikhusa came?ma* ‘introduce to each other’, which shows transitive person marking and ergative case marking on A. The causative verb *nime?ma*, without the reciprocal, also exists; it is a three-argument verb with the meaning ‘introduce (X to Y)’.

- (84) a. *kanciŋ* *ni-khusa* *ca-me-ci=ha*
 1DU see/know-RECIP eat.AUX-NPST-[1]DU=NMLZ.NS
 ‘We will get to see/know each other.’ (A=P)
- b. *uŋ=ŋa* *uŋci* *ni-khusa*
 3SG=ERG 3NSG see/know-RECIP
ca-met-u-ci=ha
 eat.AUX-CAUS-3.P[PST]-NSG.P=NMLZ.NSG
 ‘He introduced them (to each other).’ ([[A=P.RECIP], G=T.CAUS])

In the indirective frame (characterized by locative or ablative marking on the G argument, see §11.1.9), the reciprocal construction can express coreference of A and T or A and G, regardless of the case and agreement properties of the arguments in the corresponding non-reciprocal predicate. The possibilities are restricted only by the verbal semantics, i.e. whether the T or the G argument is animate/human and thus eligible for being coreferential with A. In (85a), the A argument is coreferential with T, while in (85b), A is coreferential with G.

- (85) a. *uŋci hoŋma=be luŋ-khusa ca-ya-ci=ha*
 3NSG river=LOC drown-RECIP eat.AUX-PST-[3]DU=NMLZ.NSG
 ‘They (dual) drowned each other in the river.’ (A=T)
- b. *uŋci yaŋ khu-khusa ca-me-ci=ha*
 3NSG money steal-RECIP eat.AUX-NPST-[3]DU=NMLZ.NSG
 ‘They steal money from each other.’ (A=G)

In the secundative frame (characterized by instrumental marking on the T argument, see §11.1.9), animate or human T arguments are hardly conceivable, and thus, only instances with coreferential A and G could be attested, as shown in (86).

- (86) *ibebe n-juŋ-a-ma, ikhiŋ=ga tabek=ŋa ce-ŋkhusa*
 anywhere 3PL-fight-PST-PRF so_big=GEN khukuri_knife=INS cut-RECIP
n-ja-ya=em, barcha-ŋa hok-khusa n-ja-ya=em,
 3PL-eat.AUX-PST=ALT spear=INS pierce-RECIP 3PL-eat.AUX-PST=ALT
luŋkhwak=ŋa lep-khusa n-ja-ya, ikhiŋ=ga bhuiŋar=ŋa
 stone=INS throw-RECIP 3PL-eat.AUX-PST so_big=GEN catapult=INS
ap-khusa n-ja-ya.
 shoot-RECIP 3PL-eat.AUX-PST=ALT
 ‘They fought so much, with knives so big, whether they cut each other with knives, whether they stabbed each other with lances, they threw stones at each other, they shot each other with a really big catapult.’ [39_nrr_08.21-2]

Derived verbs can also serve as input to the reciprocal construction, as shown for the benefactive in (87a) and for the causative in (87b).

- (87) a. *kanciŋ topi pham-bi-khusa ca-me-ci=ha*
 1DU cap knit-V2.GIVE-RECIP eat.AUX-NPST-[1]DU=NMLZ.NSG
 ‘We knit caps for each other.’
- b. *kaniŋ cuwa=ŋa kho?-me?-khusa ca-i-wa*
 1PL beer=INS have_enough-CAUS-RECIP eat.AUX-1PL-NPST
 ‘We serve each other beer.’ (Lit. ‘We make each other have enough beer.’)

11.3.6 The middle construction

Middle verbs are characterized by denoting an event that ‘affects the subject of the verb or his interests’, to take up the definition by Lyons (1969: 373). Characteristic for a middle situation is the low elaboration of participants in an event (Kemmer 1993: 3). Agent and patient have the same reference, just as in the reflexive. In the

middle, however, agent and patient are less distinct conceptually, because many of the events do not presuppose a volitional agent. Volitionality is a crucial feature of a prototypical agent (Hopper & Thompson 1980, Foley & Van Valin 1984). Hence, the middle is semantically less transitive than a reflexive, but still more transitive than an intransitive verb (Kemmer 1993: 73).

The Yakkha middle is marked by *-si?*, which behaves like a function verb, despite originating in a suffix, as comparison with other Tibeto-Burman languages shows (see Chapter 10.2.4). The distinctive semantic criterion of the middle marker *-si?* in Yakkha is the low intentionality and volitionality on part of the subject. The middle derivation detransitivizes the verbs (compare (88a) and (88b)). With a few verbs, *-si?* may indicate a reciprocal reading, but, crucially, only when the action was performed unintentionally (see (89)).

- (88) a. *ka bhitta=be kila likt-u-η=na*
 1SG[ERG] wall=LOC nail drive_in-3.P[PST]-1SG.A =NMLZ.SG
 ‘I drove a nail into the wall.’
 b. *ka likt-a-sy-a-η=na*
 1SG drive_in-PST-MDDL-PST-1SG=NMLZ.SG
 ‘I got stuck (in the mud, head first).’
- (89) a. *ka hen=ca a-tukhruk dailo=be*
 1SG[ERG] today=ADD 1SG.POSS-head door=LOC
lukt-i-η=na.
 knock-COMPL[3.P;PST]-1SG.A=NMLZ.SG
 ‘I knocked my head at the door even today.’
 b. *lukt-a-sy-a-η-ci-η=ha*
 knock-PST-MDDL-PST-EXCL-[1]DU-EXCL=NMLZ.NSG
 ‘We (dual) bumped into each other.’

The semantics of verbs that take the middle marker cover the situation types commonly associated with the category of middle crosslinguistically: grooming and body care, motion, change in body posture, reciprocal events, emotion, cognition and spontaneous events. The middle marker *-si?* encodes grammatical functions as well as lexicalized meanings, just as the reflexive/autobenefactive V2 *-ca* (see Chapter 10.2.3). For more on *-si?* see Chapter 10.2.4.

11.3.7 V2 stems signalling animate T arguments

Certain scenarios in three-argument verbs require additional marking in Yakkha. As the T of three-argument verbs is typically less topicworthy, salient or lower

on a referential hierarchy than the G argument, one could expect an increase in morphological complexity in the verb when the T is higher on the referential hierarchy or when the G is lower than expected, i.e. ‘the construction which is more marked in terms of the direction of information flow should also be more marked formally’ (Comrie 1989: 128). Such a marking is comparable to inverse marking for agent and patient, as found e.g. in Algonquian languages (Zúñiga 2007). According to Haspelmath (2007: 90ff), such verbal marking has not been found yet for the relation of T and G in three-argument verbs.

Yakkha, too, does not have one dedicated marker for ‘inverse’ scenarios of T and G. But there is a tendency for animate or human T (and P) arguments to require a serial verb construction, and thus, more complexity in the verb. Several V2 stems can be found in this function, most prominently *-khet* ~ *-het* ‘carry off’, *-end* ‘insert’ *-raʔ* ‘bring’ and *-haks* ‘send’. As there are several V2s with different semantics, indicating referentially high T arguments is not their only function. They can even be found with inanimate T arguments. The crucial point is that certain scenarios cannot be expressed without using them, as for instance in example (90). The stealing of things is expressed by a simple verb stem (see (90a)), while stealing a person cannot be expressed with the simple verb. Instead, the complex construction with the V2 *-het* ‘carry off’ is used, implying caused motion away from a point of reference (see (90b)). If, instead, the V2 *-haks* ‘send’ is applied to the lexical stem *khus* ‘steal’, the meaning changes to ‘rescue’ (see (90c)). The simple stem *khus*, however, cannot express events with human T arguments.

- (90) a. *pasal=bhaŋ yaŋ khus-uks-u=ha*
 shop=ABL money steal-PRF-3.P[PST]=NMLZ.NC
 ‘(He) has stolen money from the shop.’
- b. *ka ijaŋ a-paŋ=bhaŋ*
 1SG why 1SG.POSS-house=ABL
khus-het-a-ŋ-ga=na?
 steal-V2.CARRY.OFF-PST-1.P-2.A=NMLZ.SG
 ‘Why did you steal me from my home?’
- c. *kiba=bhaŋ khus-haks-a-ŋ-ga=na*
 tiger=ABL steal-V2.SEND-PST-1.P-2.A=NMLZ.SG
 ‘You saved me from the tiger.’

Some examples from natural texts are provided in (91).

- (91) a. *nhaja nnakha yapmi ta-khuwa=ci*
 and_then those person come-NMLZ=NSG
ikt-haks-u=ci,
 chase-V2.SEND-3.P[PST]-NSG.P
 ‘And then she chased away those people who were coming.’
 [14_nrr_02.034]
- b. *akka kamniwak=ci hip-paη*
 1SG.POSS=GEN friend=NSG two-CLF.HUM
tikt-u-ra-wa-η-ci-η
 guide-3.P-V2.BRING-NPST-1SG.A-3NSG.P-1SG.A
 ‘I will bring along two of my friends.’
 [14_nrr_02.023]

A very typical example is also the verb *pinnhaηma* ‘send off’ shown in (92), which has already acquired a fixed meaning ‘marry off (one’s daughter)’.

- (92) *m-ba=ηa nda ka=be*
 2SG.POSS-father=ERG 2SG 1SG=LOC
pin-nhaη-me-η=na=bu=i?
 give-V2.SEND-NPST-1SG.P=NMLZ.SG=HSY=Q
 ‘(Did they say that) your father will give you to me (in marriage)?’

It can be concluded that the higher complexity and greater semantic specification of an event via serialization is necessary in, but not restricted to events with referentially high T (and occasionally also P) arguments.

11.3.8 Historical excursus: stem augments

Yakkha verbal stems can be divided into unaugmented and augmented roots (see also Chapter 8.1). Both open ((C)V) and closed ((C)VC) stems can be extended by the coronal augments *-s* and *-t*. These augments can be related to transitivizing suffixes in Proto-Tibeto-Burman, often with *-s* coding a causative and *-t* coding a directive or a benefactive derivation (see Matisoff (2003: 457), van Driem (1989: 160)). Synchronically, however, the augmentation does not constitute a productive pattern.

Some reflexes of this old system can, however, still be found in correspondences such as in Table 11.2, albeit only for a small fraction of the verbal lexicon. Complete stem triads (consisting of an unaugmented, an *-s*-augmented and a *-t*-augmented root) are exceedingly rare, and synchronically, many intransitive verbs with augmented stems exist as well, which clearly shows that a regular correspondence between augmentation and transitivization is not given synchroni-

cally.³⁹ The stem alternations do not necessarily entail an increase in the number of arguments; sometimes just the properties of the arguments change, along with the case and person marking. For instance, *haks* and *hakt* both mean ‘send’, but the goal of *haks* is in the locative case, and referentially unrestricted, while *hakt* takes a human goal in the nominative, which also points to the former use of the augment /-t / as a benefactive marker. We have seen above in §11.3.3 that there is also a suffix -t in the benefactive derivation, which is probably also related to these old suffixes. It is only employed as a secondary marker, accompanying the primary benefactive marker, the V2 -pi?.

(C)V(C)	(C)V(C)-s	(C)V(C)-t
<i>ap</i> ‘come’ (same level, close)	<i>haks</i> ‘send somewhere’	<i>apt</i> ‘bring’
<i>ke?</i> ‘come up’		<i>hakt</i> ‘send to someone’
<i>khe?</i> ‘go’		<i>ket</i> ‘bring up’
<i>khu?</i> ‘carry’	<i>khus</i> ‘steal’	<i>khet</i> ‘carry off’
<i>lu?</i> ‘tell, say’	<i>lus</i> ‘deafen, roar’	<i>khut</i> ‘bring’
	<i>maks</i> ‘wonder, look around’	<i>lut</i> ‘tell for s.o. (story, song)’
<i>si</i> ‘die’	<i>sis</i> ‘kill’	<i>makt</i> ‘see in dream’
<i>ta</i> ‘come’ (general)	<i>tas</i> ‘arrive at’	<i>ta?</i> ‘bring to’
	<i>uks</i> ‘come down’	<i>ukt</i> ‘bring down’
<i>yun?</i> ‘sit’	<i>yuks</i> ‘put’	<i>yukt</i> ‘put for s.o.’

Table 11.2: Stem augmentation and transitivity correspondences

The stem *tup* ‘meet’ also undergoes the stem alternation. While the unaugmented stem is inherently reciprocal and is thus inflected intransitively (and thus, necessarily, takes nonsingular arguments), the stem *tups* is transitively inflected and takes two arguments that cannot have identical reference.

- (93) a. *kanciŋ tub-a-ŋ-ci-ŋ=ha*
 1DU meet-PST-EXCL-DU-EXCL=NMLZ.NSG
 ‘We met.’

³⁹Comparing the stems in Yakkha with other Kiranti languages, the form and meaning of the augmented stems do not correspond across individual languages. Unaugmented stems in one Kiranti language may have augments in another language, and augments may differ for cognate roots, which adds support to the reconstruction of these augments as non-integral part of the verbal stem, i.e., as suffixes.

- b. *ka* *ŋ-gamnibak* *n-dups-u-ŋa-n=na*
 1SG[ERG] 2SG.POSS-friend NEG-meet-3.P[PST]-1SG.A-NEG=NMLZ.SG
 ‘I did not meet/find your friend.’

12 Simple clauses

As pointed out in Dryer (2007: 224), at least four perspectives come to mind when talking about clause types: (i) the distinction between declarative, interrogative, and imperative speech acts, (ii) the distinction between main and subordinate clauses, (iii) the properties of clauses and their constituents as building blocks of discourse and (iv) types of clauses based on different kinds of predicates and their argument structure. The purpose of this chapter is to provide a bird's eye view from all four perspectives. An in-depth treatment of argument structure can be found in Chapter 11, some aspects of information structure are treated in Chapter 17 and subordinate clauses are the topic of Chapters 13, 14 and 15.

The chapter is structured as follows: Section 12.1 discusses general structural properties of simple independent clauses, §12.2 lays out constituent structure. Different types of illocutionary acts and how they affect the shape of a clause are discussed in §12.3. Finally, §12.4 introduces the regularities of agreement in Yakkha. In line with what is known about agreement in Tibeto-Burman languages in general, agreement in Yakkha is less restricted than in Indo-European languages and does not require complete matching between the referential features of the agreement markers and their controllers.

12.1 Basic clausal properties

Independent clauses present propositional content independently of other syntactic units. They are the unit in which any grammatical category of a language can be expressed, in contrast to dependent clauses (relative clauses, complement clauses or adverbial clauses), which are often restricted in some way. Some operators generally function on the level of an independent clause, like the mirative *rahecha* (a Nepali loan) or exclamative particles like *baʔlo* and *haʔlo* (see (1a)). The hearsay marker *=bu* is also found clause-finally (see (1b)), but it is also found occasionally on embedded clauses containing indirect speech and on constituents inside the clause (see Chapter 17.3.1).

Most markers, for instance information-structural particles and case markers, are found both on clausal constituents and on clauses, which is not unusual in

Tibeto-Burman. There are however tendencies for certain markers to appear rather on noun phrases (e.g. the topic marker =*ko*, the contrastive focus marker =*le*, the emphatic marker =*maŋ*) or rather on clauses or both (case markers, several postpositions, the restrictive focus marker =*se*, the additive focus marker =*ca*, the hearsay marker =*bu*).

Another distinctive feature of independent clauses is the clause-final afterthought position, accompanied by an intonation break, as a means to provide additional information about one of the (overt or omitted) referents (see (2)). All kinds of arguments are possible in the afterthought position.

Yakkha has verbal clauses, copular clauses and verbless clauses, the latter reflecting a copular structure without a copula, usually with identificational or ascriptive semantics.

- (1) a. *n-so-ks-u=na* *rahecha* *ba?lo!*
 NEG-look-PRF-3.P[PST]=NMLZ.SG MIR EXCLA
 ‘Oh, he did not look into it!’ [34_pea_04.039]
- b. *yondaŋ=ca* *khendaŋ=ca* *pik=ci=le*
 from_thither=ADD from_hither=ADD COW=NSG=CTR
n-du-ma-sim-me=ha=bu, *ibebe=ga*
 3PL-step_on-INF-AUX.PROG-NPST=NMLZ.NSG=HSY everywhere=GEN
 ‘Here and there, cows are trampling everywhere, it is said, everywhere.’ [39_nrr_08.25]
- (2) a. *liŋkha=ci* *nam=nun* *baɣari* *n-jog-a,* *baɣari*
 a_clan=NSG sun=COM bet 3PL-do-PST bet
 ‘The Linkhas had a bet with the sun, a bet.’ [11_nrr_01.003]
- b. *ŋkha?la* *lu-saŋ* *uŋ=ŋa* *nna,* *luŋkhwak,* *cu?lumphi*
 like_that tell-SIM 3SG=ERG that stone stele
thukt-uks-u, *nna* *kolenluŋ=ga*
 erect-PRF-3.P[PST] that marble=GEN
 ‘Telling them like that, he erected that stone, the stele, out of marble.’ [18_nrr_03.021]
- c. *heksaŋ* *nna* *miyaŋ* *n-thog-haks-uks-u=na* *raecha,*
 later that a_little 3PL.A-hit-V2.SEND-PRF-3.P=NMLZ.SG MIR
pik=ci=ŋa, *goru=ci=ŋa*
 COW=NSG=ERG OX=NSG=ERG
 ‘Later, they hit off some of it (the stone), the cows, the oxen.’ [39_nrr_08.03]

12.2 Constituent order

Yakkha has a flat clause structure; there is no evidence for a unit like the verb phrase (verb and arguments). The unmarked constituent order is head-final in phrases and SOV in clauses, with increasingly rhematic status towards the end of the clause. Focal information is often put in pre-verbal position (3). Noun phrases are optional (see (4a)), and clauses where all arguments are represented by noun phrases are rather rare. In complex clauses, the main clause is mostly in final position (see (4b)). Yakkha is both head- and dependent-marking on the clausal level, since it has both case marking of arguments and verbal person indexing.

- (3) a. *ilen paṇḍaṇba=ga u-ni?ma*
 one_day landlord=GEN 3SG.POSS-money
mas-a-by-a-masa
 lose-PST-V2.GIVE-PST-PST.PRF[3]
 ‘One day, the landlord’s money got lost.’
- b. *aniṇ=ga liṅkha=ga uḥile utpatti mamliṇ=be*
 1PL.EXCL=GEN a_clan=GEN long_ago origin Mamling=LOC
leks-a=na=bu
 happen-PST=NMLZ.SG=HSY
 ‘Our Linkha clan’s origin, long ago, was in Mamling, they say.’
 [11_nrr_01.002]
- c. *tabaṇ hetne tas-wa-ga=na*
 male_in-law where arrive-NPST-2=NMLZ.SG
 ‘Where will (your) husband arrive?’
- (4) a. *mund-y-uks-u-ga=na=i?*
 forget-COMPL-PRF-3.P-2=NMLZ.SG=Q
 ‘Did you forget it?’
- b. *tek whap-se khe-me-ṇ=na*
 clothes wash-SUP go-NPST-1SG=NMLZ.SG
 ‘I go to wash clothes.’

SOV is the default constituent order, but a fronted P argument is possible when it is more topical than the A argument, as in (5a). Such examples are best rendered by English passive constructions. When the object position is filled by embedded direct speech, the preferred order is the one with the object preceding the A argument, as shown in (5b).

- (5) a. *hoʃʌl=beʔ=ya* *cameŋwa* *cica=ci=ŋa*
 hotel=LOC=NMLZ.NSG food fly=NSG=ERG
m-bupt-wa=ha
 3PL.A-surround-NPST[3.P]=NMLZ.NSG
 ‘The food in the hotel is surrounded by flies.’ [01_leg_07.053]
- b. *ka, ka khaʔla* *ŋana=ba* *uŋ=ŋa* *lu-ks-u-ci*
 1SG 1SG like_this COP.1SG=EMPH 3SG=ERG tell-PRF-3.P-3NSGP
 ‘I, I am just like this; it (the bird) told them (the other birds).’
 [21_nrr_04.006]

Initial constituents often carry topic markers like =*chen* (a loan, from Nepali *cāhī*) or =*ko*. In (6), these particles mark contrastive topics.

- (6) a. *eŋ=ga=chen* *nna* *man=na*
 1PL.INCL=GEN=TOP that COP.NEG=NMLZ.SG
 ‘We do not have that (custom).’ [29_cvs_05.165]
- b. *kham=go* *m-bi-me=ha*
 soil=TOP 3PL.A-give-NPST=NMLZ.NSG
 ‘As for soil, they offer it (throwing it into the grave).’¹ [29_cvs_05.159]

In copular clauses the topic (referential or locational) naturally precedes the complement, which can be adjectival, nominal or locative (7). Copulas in affirmative clauses are not obligatory. There are different copulas for equational/ascriptive and existential/locative complements. The details are discussed in Chapter 11.1.11.

- (7) a. *nhaŋ,* *henca-khuba=chen* *yakkha* *om*
 and_then win-NMLZ=TOP of_Yakkha_affiliation COP
 ‘The winner is/will be Yakkha.’ (from a story where two groups fight about whether they are Yakkha or not) [39_nrr_08.17]
- b. *haku* *camyongba* *nak-ma=na* *thaun* *ma-n*
 now food ask-INF=NMLZ.SG place COP.NEG-NEG
 ‘Now there is nowhere to ask for food.’ [14_nrr_02.10]
- c. *u-yum=be* *waiʔ=na*
 3SG.POSS-side=LOC exist[3]=NMLZ.SG
 ‘It is next to it.’

¹In contrast to water, as one interlocutor had claimed before.

12.3 Illocutionary functions

Yakkha distinguishes declarative, imperative, hortative, and various types of interrogative and exclamative clauses.

12.3.1 Declarative clauses

Independent declarative clauses either have a verbal or a copular predicate, as many examples in §12.1 and §12.2 have shown. Among the clauses with a verbal predicate, the declarative and interrogative clauses have to be specified for tense. There is one emphatic particle *=pa* (originating in a nominalizer) which is found in declarative, hortative and imperative clauses, but never in questions (8). The exclamative force can be amplified by attaching the exclamative particle *=?lo* to *=pa*. The resulting unit expressing both emphasis and exclamative force is an independent word as far as stress is concerned, but the voicing rule still applies (8c).

- (8) a. *ḍuŋga=go ka-i-wa=ba, kaniŋ=go*
 boat=TOP say-1PL-NPST=EMPH 1PL=TOP
 ‘We just say ‘ḍuŋga’, we.’ (speaker puzzled about not finding a Yakkha word for ‘boat’ and having to use the Nepali word instead)
 [13_cvs_02.006]
- b. *men=ba!*
 COP.NEG[3]=EMPH
 ‘Of course not!’
- c. *yo, nhe pi-haks-a-masa ba?lo!*
 across here give-V2.SEND-PST-PST.PRF[1.P] EMPH.EXCLA
 ‘(My father) over there had sent me here (in marriage), man!’
 [06_cvs_01.016]

Much more frequent, on declarative as well as on interrogative clauses, are the clitics *=na* and *=ha*, originating from clausal nominalizations, a common development in Tibeto-Burman languages (and beyond). They are never found on hortatives, optatives or imperatives. Their function is hard to pin down by one neat term, but “assertive force” may give the reader an idea of their function. They occur more frequently than the emphatic *=ba*. They are discussed at length in Chapter 13.

Declaratives (and imperatives) can also be emphasized by another marker *=i*, as shown in (9).

- (9) a. *ca-i-ŋ=na=i*
 eat-COMPL-1SG=NMLZ.SG=EMPH
 ‘I finished eating.’ [36_cvs_06.241]
- b. *ab-a-ga=i!*
 come-IMP-2=EMPH
 ‘Come!’

Other clause-final markers already mentioned are the mirative and the hearsay marker, the latter is frequently found in reported speech and in passed-down narratives, and in all other contexts where the speaker wants to free himself of the responsibility for the content of the utterance.

12.3.2 Hortative and optative clauses

Hortative clauses are uttered when the speaker wants to urge or encourage someone to do something together. There is no dedicated hortative marker, the verb just appears in the main clause subjunctive² first person dual or plural inflection and without any tense/aspect specification. (10a) shows an intransitive example, (10b) shows a transitive example, with an additional particle *au*. It may occur in hortatives and imperatives, lending force to the request or order. The constituent order is like in declarative clauses, if overt arguments are there at all.

In general, the subjunctive just expresses vagueness about some future event. If it is used with first person singular or with exclusive inflection, it becomes a permissive question, with the typical intonation contour of high pitch at the end of the clause (11a). With second or third person, the subjunctive can be rendered with ‘you might [...]’ or ‘he might [...]’, and can express warnings (11b), threats (11c) and statements about possibilities in general.

- (10) a. *cun-i, kaks-i*
 wrestle-1PL[SBJV] make_fall-1PL[SBJV]
 ‘Let us wrestle, let us fight!’ [39_nrr_08.15]
- b. *a-na, a-ma=ŋa py-a=ha*
 1SG.POSS-sister 1SG.POSS-mother=ERG give-PST[1.P]=NMLZ.NSG
yaŋ=ŋa limlim inca-c-u, au?
 money=INS sweets buy-DU-3.P[SBJV] INSIST
 ‘Sister, let us buy sweets with the money that mother gave us, shall we?’ [01_leg_07.042]

²There are two subjunctives in Yakkha: the main clause subjunctive and the dependent clause subjunctive, the latter being identical to the past inflection in most person configurations, cf. Chapter 8.

- (11) a. *ka kheʔ-ŋa, au?*
 1SG go-1SG[SBJV] INSIST
 ‘I am off, alright?’
 b. *kaks-i-khe-i-ga!*
 fall-PL-V2.GO-PL-2[SBJV]
 ‘You (plural) might fall down!’
 c. *lem-nhaŋ-nen?*
 throw-V2.SEND-1>2[SBJV]
 ‘Shall I throw you out?’

The above-mentioned emphatic particle =*pa* in combination with hortatives is shown in (12).

- (12) a. *lamdhaŋ=ca khond-u-m=ba, aniŋ=ga ya=ca*
 field=ADD dig-3.P-1PL.A=EMPH 1PL.EXCL=GEN mouth=ADD
hond-u-m=ba
 open-3.P-1PL.A=EMPH
 ‘Let us dig our fields and also open our mouths.’³ [07_sng_01.14]
 b. *haku khe-ci=ba*
 now go-DU=EMPH
 ‘Now let us (dual) go!’

The optative expresses the wish of the speaker for something to happen that is beyond his immediate control. It is constructed with subjunctive forms to which the marker *-ni* is added (13). Optative forms can also be found in purposive adverbial clauses (rendered by ‘in order to [...]'). Verbal negation is possible in these forms as well. Full paradigms can be found in Chapter 8.5.

- (13) a. *siŋ pu-ni*
 tree grow[3SG]-OPT
 ‘May the tree grow.’
 b. *miʔ-ŋa-ni*
 think-1SG.P-OPT
 ‘May he remember me.’

³The exclusive is used here because the researcher was present during the song (a spontaneous song about the endangerment of the Yakkha language, and an encouragement for the hearers to speak the language), even though the people addressed are of the singer’s group. It might also be due to the unnatural recording situation that the singer was not sure whom to address with her song. In later recordings, speakers vary as to whether they use the inclusive or the exclusive forms when the fieldworker is present, which can partly be attributed to including her and partly to ignoring/forgetting about her presence.

12.3.3 Imperative and prohibitive clauses

Imperatives are uttered to make the hearer do something. Prohibitives are used to prevent the hearer from doing something. The imperative marker is *-a*,⁴ identical to the past marker, but the person inflection at least partly differs from declaratives, so that most forms are distinct from their past counterparts. Imperatives have a colloquial register (14a) and a polite register (14b). The polite forms have an additional marker *-eba*, which has probably developed from the emphatic particles *=i* and *=pa*. They are used for elders, guests and other respected people. This is the only instance of grammaticalized politeness forms in the Tumok dialect of Yakkha.⁵

- (14) a. *hani ket-u!*
 quickly bring_up-3.P[IMP]
 'Bring it up quickly!'
- b. *naʔtorok naʔtorok ket-u-eba!*
 a_bit_further_up a_bit_further_up bring_up-3.P[IMP]-POL.IMP
 'Bring it a bit further up, please!'

Prohibitives are negated imperatives formally (see Chapter 8.5 for the morphology). The examples in (15) contrast imperatives with prohibitives in the colloquial register.

- (15) a. *khy-a!*
 go-IMP
 'Go!'
- b. *ŋ-khy-a-n!*
 NEG-go-IMP-NEG
 'Do not go!'
- c. *kisa ab-a-n-u-m!*
 deer shoot-IMP-PL-3.P-2PL.A
 'Shoot (plural) the deer!'
- d. *maksa ŋ-ab-a-n-u-m-nin!*
 bear NEG-shoot-IMP-PL-3.P-2PL.A-NEG
 'Do not (plural) shoot the bear!'

Arguments can be expressed overtly in imperatives, including S and A arguments. They are not calls or vocatives, since they are not set apart by an intonational

⁴Often deleted as a strategy to avoid vowel hiatus.

⁵In Dandagaun village, people have politeness distinctions also in declaratives and questions. They use a calqued form from Nepali, discussed in Chapter 8.6.

break, and since vocatives may precede them, as in (16a). In transitive verbs, if the person addressed by the imperative is referred to by a noun and not by a pronoun, it will be marked by the ergative.

- (16) a. *lu, lu, mamu, nda=ca phat-a-η*
 INIT INIT girl 2SG=ADD help-IMP-1SG.P
 ‘Come on, come on girl, help me too!’ [07_sng_01.01]
- b. *ka um-me-η, nniṇda lakt-a-ni, nhaṇ kaniṇ*
 1SG enter-NPST-1SG 2PL dance-IMP-PL and_then 1PL
ikhin lakt-i?-wa
 how_much dance-1PL-NPST
 ‘I will enter (the basket), you (plural) dance. And how much we will dance!’ [14_nrr_02.29]

Occasionally, one finds the second person marker combined with the emphatic marker =*i* attached to the imperative, increasing the insistence of the order. This marker is also found on declarative clauses.

- (17) a. *mendhwak ghororo sa-ga=i!*
 goat forcefully pull_with_rope[IMP]-2=EMPH
 ‘Pull the goat forcefully!’
- b. *ab-a-ga=i!*
 come_across-IMP-2=EMPH
 ‘Come here!’

12.3.4 Interrogative clauses

12.3.4.1 Polar questions

Polar questions obligatorily host the clause-final clitics =*na* and =*ha* if they contain a verb,⁶ and by a particle *i* that is found both phonologically bound and unbound. When it occurs unbound, it carries its own stress and has an initial glottal stop prothesized (not written in the orthography), as all vowel-initial words have (see (18)). The conditions for the alternation between bound and unbound are not clear yet. The word order is the same as in declaratives. Polar questions are typically answered by repeating the (verbal or nonverbal) predicate (see (19)), or by

⁶It is misleading, however, to perceive these clitics as markers of polar questions, because they occur in other clause types as well.

one of the interjections *om* ‘yes’, and *menna* or *manna* for ‘no’ (identificational and existential/locational, respectively).⁷

- (18) a. *nda yakkhama mekan=na=i?*
 2SG Yakkha_woman COP.2SG.NEG=NMLZ.SG=Q
 ‘Aren’t you a Yakkha woman?’ [36_cvs_06.547]
- b. *nda lak-ma mi?-me-ka=na=i?*
 2SG dance-INF think-NPST-2=NMLZ.SG=Q
 ‘Do you want to dance?’
- c. *ka i?*
 1SG Q
 ‘You mean me?’
- d. *men=na=i, kha?la so-nhaŋ-se i?*
 NEG.COP=NMLZ.SG=EMPH like_this watch-V2.SEND-SUP Q
 ‘In order to watch them (as they leave)?’ [36_cvs_06.489]
- (19) a. *yakthu=i?*
 enough=Q
 ‘Did you have enough?’
- b. *yakthu*
 enough.
 ‘I had enough.’

In conversations, one often hears tag questions like *mennai?* ‘isn’t it?’. They request a confirmation from the interlocutor that the propositional content of the preceding utterance is true (see examples in (20)). Sometimes they may just convey uncertainty on behalf of the speaker, since in (20c), from a pear story, the interlocutor is not supposed to know about the content.

- (20) a. *to thaŋ-a-ŋ-ci-ŋ, men=na=i?*
 up climb-PST-EXCL-DU-EXCL COP.NEG=NMLZ.SG=Q
 ‘We climbed up, didn’t we?’ [36_cvs_06.267]
- b. *pi-uks-u, men=na=i?*
 give-PRF-3.P[PST] COP.NEG=NMLZ.SG=Q
 ‘She gave it to her, didn’t we?’ [36_cvs_06.381]
- c. *nhaŋ=ŋa kha?la lukt-a-sy-a-ci,*
 and_then=INS like_this collide-PST-MDDL-PST-DU
men=na=i?
 COP.NEG=NMLZ.SG=Q

⁷On a sociolinguistic side note, when meeting someone familiar (or calling on the phone, nowadays), one often asks whether the interlocutor has already eaten rice or drunken tea, depending on the time of day.

‘And then they collided like this, didn’t they?’ [34_pea_04.025]

12.3.4.2 Disjunctive questions

Disjunctive questions consist of two juxtaposed alternative scenarios, both marked by the alternation marker *=em* (21). If it attaches to a word that ends in /a/ or /e/, the first vowel gets deleted, e.g. /nhaŋ=le=em/ ‘or afterwards’ is pronounced [nhaŋlem]. This marker is not only found in interrogative clauses; occasionally it also attaches to hypothetical clauses, not following the template of two juxtaposed alternatives, but rather expressing uncertainty (see (21c)). Although the verb in this clause is marked for nonpast, and hence is in realis mood, the marker *=em* weakens the realis interpretation of this utterance, and thus it is best rendered with a subjunctive in the English translation.

- (21) a. *nningda yakkha om=em, men=em?*
 2PL of_Yakkha_affiliation COP=ALT COP.NEG=ALT
 ‘Are you (plural) Yakkha or not?’ [39_nrr_08.10]
- b. *khumdu=em η-khumd-in=em?*
 tasty=ALT NEG-tasty-NEG=ALT
 ‘Is it tasty or not?’
- c. *nda i=ya=ca men-gap-khuba*
 2SG what=NMLZ.NSG=ADD NEG-carry-NMLZ
lu?-ni-me-η=n=em.
 tell-COMPL-NPST-1SG.P=NMLZ.SG=ALT
 ‘He might tell me: You have nothing.’ [36_cvs_06.349]

12.3.4.3 Content questions

Content questions contain one of the interrogative pro-forms introduced in Chapter 4.6. Question words remain *in situ* (see (22a)), even in adverbial clauses such as (22b) and embedded clauses such as (22c). The embedded clause in (22c) reflects direct speech (see the imperative and the person marking). Question words or phrases are often marked by the focus marker *=le*. In declaratives, it marks contrastive information, and it is also often found in mirative contexts. In questions, it implies that the speaker is particularly clueless and very eager to get the answer.

- (22) a. *η=ga paŋ he?ne om?*
 2SG.POSS=GEN house where COP
 ‘Where do you live?’ [01_leg_07.160]
- b. *he?na ce?ya yok-se ta-ya=na*
 which matter search-SUP come[3SG]-PST=NMLZ.SG

- ‘Which language did she come to search for?’
- c. *ka ina=le khut-a-η ly-a-η-ga=na?*
 1SG what.SG=CTR bring-IMP-1SG.P tell-PST-1SG.P-2.A=NMLZ.SG
 ‘What did you tell me to bring (you)?’⁸

There is an interjection *issan* that can be provided as an answer when the person asked does not know the answer either. It has a rising intonation contour just like questions, and means as much as ‘I do not know’ or ‘no idea’, but often contains a subtext ‘how am I supposed to know?’, and is thus very similar in usage to the Nepali interjection *khoi*. It can be used as an answer to any question type.

More information on the discourse-structural particles touched upon in this chapter can be found in Chapter 17.

12.3.5 Exclamative clauses

Strictly speaking, exclamative clauses are not a distinct clause type, since their formal structure is identical to interrogative clauses. They always contain the interrogative quantifier *ikhiη* (or its nominalized forms *ikhiηna/ikhiηha*) which is used to inquire about the size, amount or degree of nominal, verbal and adjectival concepts. Functionally, exclamations can be defined as declaratives with high expressive value, containing some extreme and especially remarkable information (König & Siemund 2007: 316). Although they are questions formally, their intonation is different from questions, falling at the end of the clause.

- (23) a. *ikhiη ucun, hen=na din=be tub-i=ha!*
 how_much nice today=NMLZ.SG day=LOC meet-1PL=NMLZ.NSG
 ‘How nice (that) we met today!’ [10_sng_03.003]
- b. *ka ikhiη pe-me-η=na!*
 1SG how_much fly-NPST-1SG=NMLZ.SG
 ‘How much (how high) I will fly!’ [21_nrr_04.032]
- c. *ikhiη chippakeke?=na takabaη!*
 how_much disgusting=NMLZ.SG spider
 ‘What a disgusting spider!’

⁸The somewhat unusual verb form *khutaη* ‘bring me!’ is found here because structurally, this is embedded direct speech.

12.4 Flexible agreement

As for the syntax of the agreement in Yakkha and Tibeto-Burman in general, it is much more flexible than in Indo-European languages. As noted earlier by Bickel (2000), the purely identificational agreement that is known from Indo-Aryan is accompanied by associative (appositional and partitive) agreement types.

In appositional agreement, the noun phrase that corresponds to the agreement marker is semantically an apposition to the antecedent of that marker, but syntactically it is the argument. In the clauses in (24) the person value of the arguments is only revealed by the verbal person marking. The corresponding nouns provide additional information about the referent, while syntactically they are the arguments. We know that the ergative case is not overtly marked on arguments that are represented by first and second person pronouns. On nouns with first or second person reference, it is overtly marked (see (24c)), showing that the differential agent marking is determined by a combination of person features and word class.

- (24) a. *mamu he?ne khe-i-g=ha*
 girl where go[PST]-2PL-2=NMLZ.NSG
 ‘Where did you girls go?’
- b. *kamnibak sori yuŋ-i=hoŋ uŋ-u-m*
 friend together sit-1PL[PST]=SEQ drink-3.P-1PL.A[SBJV]
 ‘Having sat down together, let us friends drink.’
- c. *a-konma=ŋa=le ta-ga=na raecha*
 1SG.POSS-aunt=ERG=CTR bring[PST]-2.A[3.P]=NMLZ.SG MIR
 ‘You, auntie, really brought her (the second wife)!’ [06_cvs_01.042]
- d. *phu=na yapmi pham=na yapmi*
 white=NMLZ.SG person red=NMLZ.SG person
leks-a-ŋ=na
 become-PST-1SG=NMLZ.SG
 ‘I, the white person, turned red.’

The second type is partitive agreement, shown in (25). Here, the verbal person marking refers to a group of potential referents, while the noun phrase refers to the subset of actual referents. The verb here shows nonsingular number marking, although the referent of the A argument has singular number.⁹ In (25b) this referential mismatch extends from an embedded clause into the main clause, as it is found on both the matrix verb *kama* ‘say’ and the verb in the embedded speech

⁹With pronouns like ‘who’ and ‘none’ it is not always easy to determine the semantic number. In Yakkha, however, if one inquires about the identity of more than one person, one generally uses the nonsingular marker: *isa=ci*.

khuma ‘steal’. The sentence is paraphrasable with ‘But none of them said: we stole the money.’, although it is clear from the question pronoun (and from how the story proceeds) *isa* ‘who’ that the purpose of the clause is to single out one referent.

- (25) a. *nninɔda sum-baŋ=be isa=ŋa yaŋ*
 2PL three-CLF.HUM=LOC who=ERG money
khus-uks-u-m-ga?
 steal[PST]-PRF-3.P-2PL.A-2
 ‘Who of you three stole the money?’
- b. *kha?niŋgo isa=ŋa=ca khus-u-m-ŋa=ha*
 but who=ERG=ADD steal[PST]-3.P-1PL.A-EXCL=NMLZ.NC
ŋ-ga-ya-ma-nin
 3PL.A-say-PST-PRF-PL.NEG
 ‘But none of them said: I stole the money.’ [04_leg_03.018]
- c. *isa=ja n-nis-u-nin=na*
 who=ADD NEG-see-3.P[PST]-NEG.PL=NMLZ.SG
 ‘None of them had seen her.’ [22_nrr_05.071]

13 Nominalization and relativization

In Sino-Tibetan languages one commonly finds a pattern of syntactic nominalizations that participate in various constructions, creating noun phrases, nominal modifiers and relative clauses, but also nominalized embedded clauses, and independent main clauses. This convergence of functions has been referred to as the ‘Standard Sino-Tibetan Nominalization’ (SSTN) pattern (Bickel 1999c: 271) and has been widely studied (Matisoff 1972, DeLancey 1989a, Genetti 1992, Genetti et al. 2008, Saxena 1992, Ebert 1994, DeLancey 1999, Bickel 1999c, Watters 2002, Noonan & Fanego 2008, Doornenbal 2008). DeLancey (2011a) has even proposed nominalization as the major driving force for syntactic change in Tibeto-Burman.

The nominalization processes found in Yakkha fit well into the broader Sino-Tibetan pattern, extending far beyond the derivation of lexical nouns. Their functions cover (a) the derivation of nouns, (b) the construction of relative clauses, adjectives and other adnominal modifiers, and (c) a function beyond reference: they may occur on finite embedded complement clauses, in auxiliary constructions, and also in independent main clauses. The nominalization of main clauses serves discourse-structural purposes, as will be shown in §13.3.3 below.

Yakkha has three sets of nominalizers, one set for lexical nominalizations (marked by *-pa* and *-ma*, treated in §13.1), and two for mainly syntactic nominalizations, namely the subject nominalizers *-khuba* and *-khuma* (treated in §13.2) and the universal nominalizers *=na* and *=ha* (treated in §§13.3). Section 13.4 briefly deals with correlative clause constructions.

13.1 Lexical nominalization: *-pa* and *-ma*

The first set contains the suffixes *-pa* ~ *-ba* ~ *-wa* and *-ma*, of which *-pa* (and its allomorphs) can be traced back at least to Proto-Bodic; it is found with nominalizing and related functions in Tibetan, Sherpa, Tamangic languages and other Kiranti languages (DeLancey 2002; 2011a, Genetti 1992). In Yakkha, this set is used solely for lexical nominalizations, with *-pa* and its allomorphs for generic and male reference, while *-ma* is generally reserved for female reference (related to

an old system of gender marking). Some exceptions where both *-pa* and *-ma* have generic reference were found, too.

These nominalizers are mostly found in occupational titles, in names of mythical beings and gods, in zoological terms, in names for kinds of food and in kinship terminology (cf. Appendix). Some examples are provided in Table 13.1. As this table shows, many of the forms are not transparent; their base or part of it does not occur independently. A few adjectives and adverbs were found with *-pa*, too, such as *ulippa* ‘old’ and *tamba* ‘slowly’, but this is not the typical derivational pattern for adjectives or adverbs in Yakkha; the suffixes *-pa* and *-ma* are not productive in Yakkha.

LEXEME	GLOSS	BASES
<i>kucuma</i>	‘dog’	–
<i>kiba</i>	‘tiger’	–
<i>hibumba</i>	‘dung beetle’	dung-roll-NMLZ
<i>cikciŋwa</i>	‘wasp’	–
<i>caleppa</i>	‘bread’	eat-fry-NMLZ
<i>miksrumba</i>	‘blind person’	eye-[STEM]-NMLZ
<i>cagaŋba</i>	‘grain dish’ (Nep. <i>dhed̥o</i>)	eat-[STEM]-NMLZ
<i>maŋgaŋba</i>	‘ritual specialist’	god-[STEM]-NMLZ
<i>camyoŋba</i>	‘food’	eat-[STEM]-NMLZ
<i>wariŋba</i>	‘tomato’	–
<i>khibrumba</i>	‘fog, cloud’	–

Table 13.1: Lexical nominalizations with *-pa* and *-ma*

13.2 Participant nominalization (S/A arguments):

-khuba

13.2.1 Formal properties

The default form of this nominalizer is *-khuba*, but *-khuma* is found occasionally with female reference. This marker derives nominals that may either modify a head noun (see (1a)) or function as noun phrases themselves (see (1b) and (c)). Morphologically, it is an affix; it always attaches directly to the verbal stem. Syntactically, it has the whole phrase in its scope.

- (1) a. *heko=ha=ci mok-khuba babu*
 other=NMLZ.NSG=NSG beat-NMLZ boy
 ‘the boy who beats the others’
 b. *heko=ha=ci mok-khuba*
 other=NMLZ.NSG=NSG beat-NMLZ
 ‘someone who beats others’
 c. *mok-khuba*
 beat-NMLZ
 ‘beater’

These nominals may be long and internally complex, as shown by the examples in (2). This makes -khuba different from, say, the English nomina agentis in -er.

- (2) a. *eŋ=ga yakhaba=ga kha ce?ya yok-khuba*
 1PL.INCL.POSS=GEN Yakkha_person=GEN this language search-NMLZ
Helihang
 Helihang
 ‘Helihang, who searches for this language of us Yakkha’
 [18_nrr_03.032]
 b. *samundra=ga u-yum=be inca-khuba*
 ocean=GEN 3SG.POSS-side=LOC play-NMLZ
 ‘someone (who is) playing on the shores of the ocean’ [13_cvs_02.057]

In a relative clause structure, the constituent order is usually head-final, but postposed relative clauses are possible as well. Impressionistically, restrictive relative clauses (those that narrow down the reference of a head noun out of a set of possible referents) tend to occur preposed, while appositional relative clauses (those that add descriptive information about a noun) tend to occur postposed.

- (3) a. *eko yapmi kisa si-khuba*
 one person deer kill-NMLZ
 ‘a man killing/having killed a deer’
 b. *babu sem-khuba*
 boy pluck-NMLZ
 ‘the boy who is plucking’

If the nominalization results in a noun, it may head NPs and host all nominal morphology: case, number and possessive prefixes. The examples in (4) serve to illustrate that the resulting nominals can be modified or quantified just as simple nouns can.

- (4) a. *kha cyabrun-lak-khuba=ci*
 these drum-dance-NMLZ=NSG
 ‘these drum-dancers’ [25_tra_01.071]
- b. *jammai kam cok-khuba=ci*
 all work do-NMLZ=NSG
 ‘all the workers’ [25_tra_01.098]

As the nominalizer attaches directly to the verbal stem, there is no TAM marking on the verb, and the TAM interpretation is retrieved from the context. The verb may host the negation marker *men-*, which is also found on other nonfinite verbal forms such as converbs and infinitives (see (5a)). Another verbal property is illustrated in (5): the noun in *-khuba* may still be modified by adverbs. However, it is not clear yet whether nominal and verbal properties could occur simultaneously, e.g. in a phrase like *jammai thwan namkhubaci* ‘all the awfully stinking ones’.

- (5) a. *kaniη=nun men-don-khuba nwak*
 1PL=COM NEG-agree-NMLZ bird
 ‘the bird that does not belong to us/that is different from us’ [21_nrr_04.004]
- b. *makhurna waghui lo?a thwan nam-khuba*
 black chicken droppings like [smelling]awfully smell-NMLZ
 ‘something black, smelling awfully, like chicken droppings’ [42_leg_10.017]

Complement-taking verbs with embedded infinitives can be in the scope of the nominalizer as well, as (6) shows. The infinitive *hiηma* ‘support’ is embedded into *yama* ‘be able to X’.

- (6) *hiη-ma ya-khuba babu=be khe?-ma*
 support-INF be_able-NMLZ boy=LOC go-INF[DEONT]
 ‘You have to marry a man who can support you.’ [28_cvs_04.112]

The constituents of the relativized clause can also be focussed on by means of the additive focus marker (see (7a)), and they can be emphasized, as in (7b), with *ηkhiη* ‘that much’.

- (7) a. *sa=ma?niη=ca leη-khuba*
 meat=without=ADD be_alright-NMLZ
 ‘someone who is fine even without (eating) meat’
- b. *yapmi=ci=nun=ca ηkhiη sala me-leη-khuba=ci*
 people=NSG=COM=ADD that_much matter NEG-exchange-NMLZ=NSG

‘They were of the kind that does not talk that much with people, too.’
[22_nrr_05.046]

A few lexicalized nominalizations with *-khuba* and *-khuma* can be found, too: *khuncakhuba* ‘thief’ (steal-eat-NMLZ), *thukkhuba* ‘tailor’ (sew-NMLZ), *hiŋkhuba* ‘husband’, *hiŋkhuma* ‘wife’ (support-NMLZ), *yaben-pekhuba* ‘diviner’ (sign-divine-NMLZ). Note the parallelism of *-khuba* referring to generic/male nouns and *-khuma* referring to female nouns, as in the lexical nominalizations discussed in §13.1. This suggests that *-khuba* and *-khuma* are historically complex.¹

13.2.2 Grammatical relations

Descriptions of other Kiranti languages call equivalent constructions ‘nomen agentis’ or ‘active/agentive participle’ (Tolsma 1999, Rutgers 1998, Ebert 1997; 1999a, Doornenbal 2009). One should note, however, that the nominalization may apply to verbs of any semantics, and the resulting nouns do not just refer to typical agents (see Bickel (2004a: 180) for the same point on closely related Belhare). Subjects of stative verbs like *namma* ‘smell, emit odour’, *haŋma* ‘have spicy sensation’ or *tukma* ‘be ill’ can also be the targets of this nominalization.

The resulting nominal always refers to the S in intransitive verbs, and to the A for all transitive verbs (two-argument and three-argument), but never to any lower argument. This is illustrated by (8): S and A arguments are possible results of the nominalization, while P arguments are not (see (8c)). Nominalizing morphology that indicates a grammatical relation is common in Kiranti languages, and it is also known e.g. from Dolakha Newari and from Kham (see Genetti (1992: 409), Ebert (1999a: 376)).

- (8) a. *paip pek-khuba babu*
pipe break-NMLZ boy
‘the boy who broke/breaks the water pipe’ (A)
- b. *leŋ-khuba tabhaŋ*
become-NMLZ son-in-law
‘the prospective son-in-law’ (S)
- c. **babu=ŋa pek-khuba paip*
boy=ERG break-NMLZ pipe
Intended: ‘the pipe that was/will be broken by the boy’ (*P)

Non-canonically marked S and A arguments, e.g. possessive experiencers or locative marked possessors undergoing the nominalization are just as fine as stan-

¹The syllable *khu* is also found in the reciprocal marker *-khusa*.

dard S and A arguments (i.e., in the ergative or nominative case and being indexed on the verb). In (9a), the experiencer S argument is coded as possessor of the sensation, literally translatable as ‘someone whose laziness comes up’. In (9b), the semantic relation expressed is possession, but it is coded with an existential construction and a combination of genitive and locative marking on the A argument.

- (9) a. *o-pomma kek-khuba yapmi*
 3SG.POSS-lazyness come_up-NMLZ person
 ‘a lazy guy’
- b. *kai=ga=be wa-ya, wa-khuba=ŋa me-wa-khuba*
 some=GEN=LOC exist[3SG]-PST exist-NMLZ=ERG NEG-exist-NMLZ
m-bi-n-ci-nin
 3PL.A-give[PST]-C-3NSG.P-NEG
 ‘Some (people) had (food), and those who had (food) did not give it to
 those who did not have it.’ [14_nrr_02.012]

13.2.3 Predicative use of the nominalized forms

Some examples even point towards a predicative use of the nominalized forms, as opposed to the expected referential use shown in the examples above. As we will see in §13.3 below, this function of *-khuba* is similar to what is found for the nominalizers *=na* and *=ha*.

Shown below is a prime example to illustrate the function of nominalization as a discourse-structural device in Yakkha (see (10)). It is from a written narrative. The narrator remembers a fight with his brother. Both boys want to let out the chicks from the cage, and in the course of the fight, they accidentally kill them by squeezing them with the cage door. The nominalization is employed to yield a vivid narrative style, at a point where the event line approaches its climax, i.e., the accidental killing of the chicks. The verb of saying has to be set back against the content of the embedded direct speech, which contains the crucial information for what happens next. The fact that the nominalized form *kakhuba* ‘the one who says’ occurs before the embedded direct speech supports this explanation. In the typical structure, the finite verb of saying would be the last element in the sentence. But as focal elements tend to come sentence-finally, and as the embedded speech here contains the focal information, the constituent structure is reversed. On a further note, the embedded speech itself contains a nominalizer *=ha*. This nominalizer has quite the opposite function here: it serves to put emphasis on the claim uttered by the boys (cf. §13.3.3 below). The example nicely illustrates how

nominalizers are employed to carve out a text by means of backgrounding and foregrounding chunks of information.

- (10) *ka ka-khuba ka hon-wa-η-ci-η=ha!, a-phu*
 1SG say-NMLZ 1SG open-NPST-C-3NSG.P-1SG.A=NMLZ.NSG, 1SG.POSS-eB
ka-khuba ka hon-wa-η-ci-η=ha!
 say-NMLZ 1SG open-NPST-C-3NSG.P-1SG.A=NMLZ.NSG
 ‘I said: I will let them out!, and my elder brother said: I will let them out!’
 [40_leg_08.065]

Example (11) is from a narrative account of what happened at a festival. The sentence describes some young men who feel ashamed of what they had done the night before when they were drunk. As such, the sentence which is nominalized by *-khuba* is rather like a comment, set apart from the main event line.

- (11) *nhaη koi-koi sulemwalem leη-khe-khuba*
 and_then some-some with_hanging_heads become-V2.GO-NMLZ
 ‘And some of them hung their heads.’
 [37_nrr_07.074]

13.3 The nominalizers =na and =ha ~ =ya

The nominalizers =na and =ha ~ =ya have a wide range of functions. They are clitics, attaching to the rightmost element of a phrase, whether this is an inflected verb, a stem (of any word class), a case-marked phrase or a clause. The resulting nominal may fill the structural position of a nominal head, an adnominal modifier (adjectives, participles, relative clauses), a complement clause, or a finite, independent main clause. Nominalized main clauses have several and at first sight contradictory discourse functions.

Section 13.3.1 is concerned with uses of this nominalization in adnominal modification, while section 13.3.2 deals with complementation. Section 13.3.3 discusses main clause nominalization.

The markers =na and =ha ~ =ya indicate singular and nonsingular number, respectively, shown in (12). The marker =ha also refers to non-countables, substances and more abstract concepts (12c). Example (13) illustrates the same point with the interrogative root *i*.² The nominalizers turn the interrogative root into a pronoun, in order to inquire about a particular referent. This number distinc-

²The interrogative root *i* is the base for many interrogative words. In isolation, it may be used to ask about states-of-affairs, as in *i leksa?* ‘What happened?’.

tion in nominalization is also found in Athpare and in Belhare, both also from the ‘Greater Yakkha’ branch of Eastern Kiranti (Ebert 1997: 130, Bickel 1999c: 278).

- (12) a. *pham=na warinba*
red=NMLZ.SG tomato
‘red tomato’
b. *pham=ha warinba=ci*
red=NMLZ.NSG tomato=NSG
‘red tomatoes’
c. *onek=ha cel̥ya*
joking=NMLZ.NC matter
‘jokes’
- (13) a. *i=na*
what=NMLZ.SG
‘what’ (presupposing one item)
b. *i=ha*
what=NMLZ.NSG/NC
‘what’ (presupposing many items or mass reference)

It should be emphasized for the following discussion that the traditional sense of ‘nominalizer’ is too narrow with regard to Yakkha and in Sino-Tibetan nominalization in general (hence Bickel’s (1999) term ‘Standard Sino-Tibetan Nominalization’). The markers *=na* and *=ha* do not regularly derive nouns, although one occasionally finds lexicalized expressions, such as *chemha* ‘liquor’ (be transparent-NMLZ), *tumna* ‘senior’ (ripen-NMLZ), *pakna* ‘junior’ (be raw-NMLZ), *han̥ha* ‘hot spice’ (taste hot-NMLZ), *bhenikna* ‘morning ritual’ (morning-NMLZ). Rather, they turn any material into referential expressions, behaving identically or very much like noun phrases, either with or without head noun.

Etymologically, the nominalizers are related to a set of demonstratives: *na* ‘this’, *kha* ‘these’ (see Chapter 4.3). These demonstratives have exactly the same distribution with regard to number and mass/abstract reference as the nominalizers (compare examples (12) and (13) with (14)).

- (14) a. *na sambakhi*
this potato
‘this potato’
b. *kha sambakhi=ci*
these potatoes=NSG
‘these potatoes’

- c. *kha kham*
 this soil
 'this soil'
- d. *kha ce?ya*
 this matter
 'this matter/language'

So far, not many restrictions on the inflectional properties of the nominalized or relativized verb phrases could be detected. The only restriction is that certain clausal moods which are expressed by verbal inflection (optative, imperative) cannot be fed into the nominalization process. As far as person and tense/aspect marking is concerned, anything is possible. Example (15a) shows a verb inflected for the progressive. The nominalization may also apply recursively (see (15b)).

- (15) a. *lop pok-ma-si-me=ha* *yanli*
 now rise-INF-AUX.PROG-NPST[3SG]=NMLZ.NSG sprout
 'the sprouts that are shooting now'
- b. *he?=na=be?=ya=ci?*
 which=NMLZ.SG=LOC=NMLZ.NSG=NSG
 '[The people] from which place?'

13.3.1 Relativization

13.3.1.1 Adnominal modification and relativization

The nominalizers are frequently found as relativizers. In contrast to the nominalizer *-khuba*, =na and =ha are almost unrestricted with respect to grammatical relations. Core participants as well as non-core participants can serve as a relativization site for =na and =ha. The only thematic relation that has not been found is A, as A arguments get nominalized by *-khuba*.³ In this respect, Yakkha is radically different from its neighbours, where the corresponding markers are unconstrained with respect to grammatical relations (Ebert 1997, Bickel 1999c). Relativizations on S arguments do occur, but they are much rarer than relativizations on objects or other kinds of participants, since this grammatical relation is also covered by the marker *-khuba*. The examples in (16) show relativizations on core arguments.

³There is no direct negative evidence, unfortunately, but in the whole corpus of recorded language data (roughly 13.000 words), not a single instance of A arguments nominalized by =na or =ha was detected, neither did I hear it in conversations or elicitations. Thus, even if nominalization or relativization over A was possible, it would be a rather marked structure.

- (16) a. *ci=ha* *manɕwa*
 be_cold=NMLZ.NSG water
 ‘cold water’ (S)
- b. *nda* *nis-u-ga=na* *chem*
 2SG[ERG] know-3.P[PST]-2=NMLZ.SG song
 ‘a song that you know’ (P)
- c. *chemha* *yukt-u=na* *mamu*
 liquor put_for-3.P[PST]=NMLZ.SG girl
 ‘the girl that was served liquor’ (G)
- d. *beula=ŋa* *khut-u=ha* *tephen*
 groom=ERG bring-3.P[PST]=NMLZ.NSG clothes
 ‘the clothes brought by the groom’ (T) [25_tra_01.054]

Some relativizations of objects have lexicalized into adjectives. Example (17a) is from the canonical transitive class. Example (17b) is originally from the class of transimpersonal verbs (cf. Chapter 11). In this class, the sole argument is expressed as the object of a morphologically transitive verb, and the verb shows default third person A marking, i.e. zero. An A cannot be expressed with transimpersonal predicates.

- (17) a. *a-na* *mi* *cend-u=na* *sa-ya=na*
 1SG.POSS-eZ a_little wake_up-3.P=NMLZ.SG COP.PST-PST[3SG]=NMLZ.SG
 ‘My elder sister was rather witty.’ [40_leg_08.057]
- b. *ikhiŋ* *yeŋd-u=na* *yapmi* *lai!*
 how_much be_tough-3.P=NMLZ.SG person EXCLA
 ‘What a tough person!’

The relativization of non-core participants such as locations, temporal expressions or comitatives is illustrated by (18).⁴

- (18) a. *nna* *o-hop* *wa-ya=na* *siŋ*, *nna=ca*
 that 3SG.POSS-nest exist-PST[3SG]=NMLZ.SG tree, that=ADD
et-haks-u!
 strike-V2.SEND-3.P[IMP]
 ‘That tree **where he has his nest**, destroy that too!’ [21_nrr_04.020]
- b. *la* *mem-phem-meʔ=na* *seʔni=ŋa*
 moon NEG-shine-NPST=NMLZ.SG night=INS
 ‘in a **moonless** night’ [14_nrr_02.21]

⁴Regarding (c), the question with whom one may eat is fundamental in the highly stratified Hindu society. This example from a narrative thus also illustrates the impact that Hindu rule has had on Kiranti society in the past centuries.

- c. *ca-m=ha* *yapmi* *men-ja-m=ha*
 eat-INF[DEONT]=NMLZ.NSG people NEG-eat-INF[DEONT]=NMLZ.NSG
yapmi, kha imin=ha=ci?
 people these how=NMLZ.NSG=NSG
 ‘What kind (of people) are they? (Are they) people **with whom we should eat, or with whom we should not eat, of what kind (are they)?**’
 [22_nrr_05.040]

Not just inflected verbs, but also case-marked phrases (19), simple nouns (20a) and even converbal clauses (20b) can be turned into adnominal modifiers by means of the nominalizers. Only the negation converb *men-...-le* licenses this possibility.

- (19) a. *jarman=be?=na* *mamu*
 germany=LOC=NMLZ.SG girl
 ‘the girl from Germany’
 b. *nasa=ci, u-tiŋ=nun=ha=ci*
 fish=NSG 3SG.POSS-spike=COM=NMLZ.NSG=NSG
 ‘the fish, those with spikes’ [13_cvs_02.046]
- (20) a. *bhenik=na* *cama*
 morning=NMLZ.SG rice
 ‘the (portion of) rice from the morning’
 b. *u-lan* *men-da-le=na* *picha*
 3SG.POSS-leg NEG-come-CVB=NMLZ.SG child
 ‘the child that cannot walk yet’

Many roots in Yakkha may be used either as adverbs or as adjectives. Adjectives in adnominal use are again derived by means of the nominalizers. Compare the adverbs and predicative adjectives in (21a,c,e,g) with the adnominal adjectives in (21b,d,f,h).

- (21) a. *haku imin coŋ-me-ci-g=ha?*
 now how do-NPST-DU-2=NMLZ.NSG
 ‘Now how will you do it?’ [22_nrr_05.109]
- b. *na imin=na, kanŋ=nun men-don-khuba nwak*
 this how=NMLZ.SG 1PL=COM NEG-agree-NMLZ bird
 ‘What kind of bird is this, not belonging to us.’ [21_nrr_04.004]
- c. *ka to tanŋkhyan=be pe-nem-me-ŋ=na*
 1SG up sky=LOC fly-V2.LAY-NPST-1SG=NMLZ.SG
 ‘I will keep flying up into the sky.’ [21_nrr_04.033]
- d. *to=na paŋ*
 up=NMLZ.SG house

- ‘the upper house’
- e. *khem nis-u-η=na.*
 before see-3.P[PST]-1SG=NMLZ.SG
 ‘I saw it before.’
- f. *khem=na kamniwak*
 before=NMLZ.SG friend
 ‘the friend from before’
- g. *luṅkhwak sahro cancan sa-ma=na*
 stone very high COP.PST-PRF=NMLZ.SG
 ‘The rock was really high.’ [38_nrr_07.039]
- h. *cancan=na luṅkhwak*
 high=NMLZ.SG stone
 ‘a high rock’

Adjectives may also be derived from verbal roots with (ingressive-)stative semantics (22) (cf. also Chapter 6).

- (22) a. *chem=ha maṇcwa*
 be_clear=NMLZ.NSG water
 ‘clear water’
- b. *haṇ=ha macchi*
 be_spicy=NMLZ.NSG pickles
 ‘spicy pickles’

13.3.1.2 Headless and internally headed relative clauses

Besides the adnominal modification, one often encounters headless relative clauses, i.e., noun phrases that lack a head noun (see (23)). The relative clause takes the structural position that would otherwise be filled by the head noun.

- (23) *nhaṇ sapthakt-wa-c-u=na ibilag-ibilag*
 and_then like-NPST-DU-3.P=NMLZ.SG secretly-REDUP
khus-het-i-ya-ma-c-u=na
 steal-V2.CARRY.OFF-COMPL-PST-PRF-DU-3.P=NMLZ.SG
 ‘And they (dual) secretly stole one (girl) whom they liked.’ [22_nrr_05.064]

The reference of the head noun is retrieved from the context, but there is a syntactic constraint, too. As A arguments may not undergo this kind of relativization, headless relative clauses are always interpreted as referring to the object of a transitive verb (see (24a)) or as the sole argument of an intransitive verb (see (24b)). As the S and the P arguments are treated identically, this is a case of ergative alignment in syntax.

- (24) a. *nna tas-wa=na=be*
 that reach[3SG.A]-NPST[3.P]=NMLZ.SG=LOC
yog-a-ca-n-u-m, nna=be
 search-IMP-DU.A[IMP]-3PL.P-3.P-2PL.A that=LOC
 ‘Look for it **where it lands**, in that (place).’ [22_nrr_05.090]
- b. *nda cekt-a-ga=na*
 2SG[NOM] speak-PST-2=NMLZ.SG
η-kheps-u-ηa-n=na
 NEG-hear-3.P[PST]-1SG.A-NEG=NMLZ.SG
 ‘I did not hear **what you said**.’ (presupposing one word was said)

In contrast to the almost unconstrained adnominal modification, headless relative clauses referring to non-core participants were not found. The absence of the head noun would make their interpretation rather difficult. For instance, leaving out *din* ‘day’ from a clause like in (25) is not possible.

- (25) *na mamu=ηa nna lunḵhwak khet-u=na *(din)*
 this girl=ERG that stone carry_off-3.P[PST]=NMLZ.SG *(day)
i leks-a-ma=na baṇniṇ ...
 what happen-PST[3SG]-PRF=NMLZ.SG about ...
 ‘As for what happened on the day when the girl carried off that stone, ...’
 [38_nrr_07.042]

While headless relative clauses show properties of noun phrases, such as number and case marking and the possibility of being referred to anaphorically by demonstratives (see *nna* in (24a)), they do not have noun properties: there is no evidence for possessive prefixes attaching to the headless relative clause. Furthermore, the argument marking inside the headless relative clause remains as in simple clauses. There are, for instance, no genitives on core arguments, as e.g. in the English clause *His talking annoyed me*.

A marginally occurring type of relative clause are internally headed relative clauses (called ‘circumnominal’ in Lehmann (1984)). Internally headed relative clauses are relative clauses whose head noun is not extracted but remains in the same structural position as it would be in a main clause. This type has been reported for other Tibeto-Burman languages, too; see e.g. Bickel (2005: 3) and Bickel (1999c) for closely related Belhare, DeLancey (1999: 245) for Tibetan, and Coupe (2007: 255) for Mongsen Ao. In Yakkha, this type is rather marginal. All examples are elicited, and natural data would be necessary for a better understanding of this structure. An example is shown in (26). The main verb *tumma* ‘find’ can only take nominal, not clausal complements; one cannot, for instance, add the com-

plementizer *bhoŋ* to the embedded verb, or interpret it as ‘I found out that a man was killed by a tiger’. The object can only be the noun *yapmi* ‘person’, so that the surrounding material must be a relative clause.

- (26) *kiba=ŋa eko yapmi sis-u=na*
 tiger=ERG one person kill-3.P[PST]=NMLZ.SG
tups-u-ŋ=na
 find-3.P[PST]-1SG.A=NMLZ.SG
 ‘I found a man who was killed by a tiger.’

The ergative alignment found for headless relative clauses is also found for internally headed relative clauses. Relativizing over an A argument is ungrammatical, and instead, a relative clause marked by *-khuba* was offered in the elicitation (see (27a)). Example (27b) also resulted from the attempt to elicit a transitive clause relativizing over an A argument. The transitive verb was changed to an imperfective structure, which, by means of an intransitively inflected auxiliary, is also (morphologically) intransitive. This suggests that the ergativity is the result of a morphosyntactic, not a semantic constraint. An A, at least in the third person, would carry an ergative marker, which would clash with the object properties that the noun has with respect to the main clause. On the other hand, the ergativity is not surprising anyway, as relativization by *=na* and *=ha* generally does not allow A arguments as head nouns. The difference to the more common head-final structure lies only in the exclusion of non-core participants such as locations or comitatives.

- (27) a. *eko yapmi kiba si-khuba tups-u-ŋ=na*
 one person tiger kill-NMLZ find-3.P[PST]-1SG.A=NMLZ.SG
 ‘I found a man who killed a tiger.’ (A: *-khuba*)
 b. *eko yapmi syau sem-ma-sy-a=na*
 one person apple pluck-INF-AUX.PROG-PST[3SG]=NMLZ.SG
tups-u-o-ŋ=na
 find-3.P[PST]-V2.LEAVE-1SG.A=NMLZ.SG
 ‘I found (and passed) a man who was plucking apples.’ (S)

An ambiguity with finite complement clauses further complicates the analysis of headless relative clauses. All of the potential instances of internally headed relativization found in my corpus could also be complements of verbs of perception or cognition. As nothing is extracted in internally headed relativization, the constituent structure of the relative clause is identical to simple clauses, and one cannot distinguish structurally between *I heard the one who was talking* and *I heard*

that someone talked. Both clauses refer to identical situations in the real world; one cannot hear that someone talks without actually hearing the person talking. One structural criterion to find out whether the embedded clause is a complement or a relative clause could be agreement. Example (28a) is from a narrative, while (28b) is made up in analogy, but with different number features. As the argument *tori* ('mustard', a mass noun) triggers =ha on the main verb *o?ma* 'be visible' and *eko phun* 'one flower' triggers =na, one could infer that they are arguments of the main verb, instead of the whole clause being the argument. However, one could as well interpret this behavior as long distance agreement out of a finite complement clause, which would not be surprising in Yakkha complementation (see Chapter 15). Hence, the question of how to distinguish internally headed relative clauses and complement clauses cannot be answered satisfactorily, at least not with perception verbs that allow both clausal and nominal complements.

- (28) a. *saptakosi=ga* *u-lap=pe* *tori*
a_river_confluence=GEN 3SG.POSS-side=LOC mustard
phet-a=ha=ca *ot-a=ha=bu,*
bloom[3SG]-PST=NMLZ.NSG=ADD be_visible[3SG]-PST=NMLZ.NSG=HSY
nna=bhan
that=ABL
'Even the mustard blooming at the shores of Saptakosi was visible,
from that (rock).' [38_nrr_07.041]
- b. *saptakosi=ga* *u-lap=pe* *eko phun*
a_river_confluence=GEN 3SG.POSS-side=LOC one flower
phet-a=na=ca *ot-a=na=bu,*
bloom[3SG]-PST=NMLZ.SG=ADD be_visible[3SG]-PST=NMLZ.SG=HSY
nna=bhan
that=ABL
'Even a flower blooming at the shores of Saptakosi was visible, from
that (rock).'

Ambiguities between relative clauses and complement clauses are common; see e.g. Bickel (1999c: 272ff), Noonan (2007: 120,143). In Yakkha, the complemental structure probably gave rise to internally headed relative clauses. All instances displaying this ambiguity in the Yakkha corpus involve verbs of perception or cognition (e.g. 'see', 'hear', 'remember', 'forget'), which leads to the conclusion that the complemental structure must have been the original structure. It must have been gradually expanded to other types of main verbs, namely those which rule out a complemental reading, as the elicited example in (27) above.

13.3.2 Complementation

Complementation is treated in detail in Chapter 15. Suffice it to say here that the finite clausal complements of verbs of saying, perception or cognition are always marked by one of the nominalizers, except for quoted direct speech. Optionally, a complementizer *bhoŋ* can be added to the nominalized complement clause (see (29b)). It is worth noting that all complement-taking verbs of this class also take nominal objects. The verb *mi?ma* has very unspecific semantics; it translates as ‘think, remember’, and as a complement-taking verb, it translates as ‘hope, think, want’, depending on whether the embedded clause is finite or infinitival.

Finite complementation in Yakkha exhibits double agreement. The embedded subject (S or A) simultaneously triggers agreement in the matrix verb and in the embedded verb, shown by both clauses in (29) (also known as ‘copy-raising’). Rather than seeking for a purely structural explanation, a semantic motivation seems more likely to me. Perceiving or thinking about an event always involves perceiving or thinking about the participants, and the agreement marking on the matrix verb reflects this semantic property.

- (29) a. *nda cama ca-ya-ga=na mi-nuŋ-nen=na*
 2SG rice eat-PST-2=NMLZ.SG think-PRF-1>2=NMLZ.SG
 ‘I have thought you ate the (portion of) rice.’
 b. *yag-a-sy-a-ŋ=na bhoŋ*
 be_exhausted-PST-MIDDLE-PST-1SG=NMLZ.SG comp
n-nis-a-ma-ŋ-ga-n=na?
 NEG-see-PST-PRF-1SG.P-2.A-NEG=NMLZ.SG
 ‘Don’t you see that I am exhausted?’

The nominalized clause can also be the complement of postpositions that are otherwise found embedding nouns (see (30)). The postposition *anusar* is borrowed from Nepali.

- (30) a. *ka-ya=na anusar*
 say-PST[3SG]=NMLZ.SG according_to
 ‘according to what he promised’ [11_nrr_01.008]
 b. *ka lu?-me?-nen-in=ha lo?a cog-a-ni*
 1SG[ERG] tell-NPST-1>2-PL=NMLZ.NSG like do-IMP-PL.IMP
 ‘Do as I tell you.’ [14_nrr_02.19]

13.3.3 Stand-alone nominalizations

13.3.3.1 A versatile discourse strategy

The extension of nominalizations to main clauses is a common feature of Sino-Tibetan languages. Finite nominalizations, or ‘stand-alone nominalizations’ were first noted by Matisoff (1972) for Lahu (Loloish). Despite the wealth of syntactic studies on nominalization in Tibeto-Burman (see, e.g., Matisoff (1972), Noonan (1997), Noonan & Fanego (2008), DeLancey (1999; 2002), Genetti (1992), Doornenbal (2008), Genetti et al. (2008), Watters (2008), DeLancey (2011a)), the main clause function was said to be ‘poorly understood’ until recently (Genetti et al. 2008: 101). Ebert (1994: 110ff) mentions nominalized sentences in several Kiranti languages and associates them with lively speech and with focus, as they frequently occur in questions and in negated sentences.

The most detailed discussions of this phenomenon can be found for Belhare and some other Kiranti languages (Bickel 1999c) and for Kham (Watters 2002). Bickel (1999c) identifies focus marking as the functional core of main clause nominalizations, i.e. highlighting controversial information in discourse and (re-)instantiating information with strong assertive force and authoritative power. For Kham, Watters (2002: 369) concludes that main clause nominalization serves to mark thematic discontinuity with the surrounding context, which is employed for narrative stage-setting and for highlighting pivotal events in narratives. In Chantyal, nominalized main clauses may also have a mirative reading (Noonan & Fanego 2008). Doornenbal (2008: 89) made similar findings for Bantawa. Main clause nominalization is not restricted to Sino-Tibetan languages, though. Yap & Grunow-Hårsta (2010) discuss the non-referential uses of nominalization with respect to languages spoken in Asia in general. This phenomenon is not restricted to Asia either, as studies by Woodbury (1985) and by Wegener (2012) show (the list is not meant to be exhaustive).

The crosslinguistic occurrence of finite nominalizations suggests a deeper, functional-pragmatic motivation for this process. As Matisoff (1972) has already observed in his study of Lahu, nominalizations ‘objectify and reify a proposition’. By applying a linguistic strategy, namely turning a proposition into a noun-like entity, inherently ephemeral events are identified with inherently time-stable objects, for the purpose of giving them more ‘reality’.

As I will show, this effect gave rise to various at first sight contradictory functions in Yakkha, similar to what was found for Belhare and Kham. Main clauses are nominalized to set them apart from the surrounding discourse, which may re-

sult both in backgrounding and in foregrounding information, depending on the genre and the given discourse context.

Plenty of examples above have already shown that the clitics =*na* and =*ha* may attach to finite, independent clauses. They may also attach to nonverbal predicates in copula constructions, as (31) shows. The addition of a copula is possible, but not obligatory here.

- (31) *m-muk a-lan hiŋ=na (om)*
 2SG.POSS-hand 1SG.POSS-foot as_big_as=NMLZ.SG (COP)
 ‘Your hand is as big as my foot.’

As already noted by Matisoff (1972), nominalized clauses are often paraphrasable with *It is the case that* [*proposition*]. By nominalizing a clause, the speaker emphasizes some state-of-affairs as an independent fact. This is often necessary when some controversial or contrastive information is involved, for instance in negotiations, as in (32) and (33) from narratives (cf. Bickel (1999c) for the same point). In (32), there are two parties, namely a bride against her natal home, arguing about a megalith that she wants to take to her new home as dowry.

- (32) a. *ŋkhatniŋgo na mamu=ŋa ka, eko=chen ka*
 but this girl=ERG 1SG, one=TOP 1SG[ERG]
mit-u-ŋ=na
 want-3.P[PST]-1SG.A=NMLZ.SG
 ‘But this girl (said): I, I want one thing.’
 b. *saman py-haks-a=na, n-lu-ks-u-ci*
 property give-V2.send-PST[3SG]=NMLZ.SG 3PL.A-tell-PRF-3.P.PST-NSG
 ‘The property was already transferred, they told them.’ [38_nrr_07.004]

In (33), the speakers, inhabitants of a village, assure the protagonists of the narrative that they can have anything they ask for. They say this out of gratitude and possibly also fear, because the protagonists are believed to be sourcerers, and they had just miraculously ‘found’ a girl (whom they had in fact kidnapped themselves some days earlier).

- (33) *i=ya njiŋda yon-me-c-u-ga, ŋkha kaniŋ*
 what=NMLZ.NSG 2.DUAL search-NPST-DU.A-3.P-2 that 1PL[ERG]
pi-me?-nen-in=ha
 give-NPST-1>2-PL=NMLZ.NC
 ‘Whatever you look for, we will give it to you.’ [22_nrr_05.079]

Example (34) is another instance of a nominalized clause, which is uttered in order to convince the hearer about the truth of the propositional content (cf. Ebert (1997) for the same point on Athpare).

- (34) *nda n-si-me-ka-n=na, ka ucun=na thoŋ=be*
 2SG NEG-die-NPST-2-NEG=NMLZ.SG 1SG nice=NMLZ.SG place=LOC
khem-me?-nen=na
 carry_off-NPST-1>2=NMLZ.SG
 ‘You will not die, I will take you to a nice place.’ [27_nrr_06.010]

The nominalized clauses are very frequent in assertions (both affirmative and negated, in fact, negated clauses without nominalizers are very rare), and also in questions, particularly in polar questions (see (35a)). Nominalization is absent from mood paradigms (imperative, subjunctive and optative), from irrealis and counterfactual clauses, and from adverbial subordination (exemplified by a sequential clause in (35b)), i.e., from any non-assertive clause type, except for interrogatives. Given this distribution, the main clause nominalization could best be characterized as assertive force marker. The proposition in question is not part of the background that is shared by all discourse participants, which is why it needs to be reinstated, in line with the focus analysis found in Bickel (1999c).

- (35) a. *ta-ya=na=i?*
 come[3SG]-PST=NMLZ.SG=Q
 ‘Did she come?’
 b. *khus-het-a-ma-c-u-(*=na)=hoŋ* ...
 steal-V2.CARRY.OFF-PST-PRF-DU.A-3.P(*=NMLZ.SG)=SEQ ...
 ‘After they have stolen her, ...’ [22_nrr_05.060]

The use of main clause nominalization differs greatly across text genres. In narratives, nominalized main clauses are rarer than in conversational data. For Kham, a Tibeto-Burman language spoken in western Nepal, Watters (2002) observed three uses of nominalization, which are (i) stage-setting, (ii) marking pivotal events or turning points in a story, and (iii) marking comments or some information that is set apart from main event line.

The situation in Yakkha is similar to Watters’ observations on Kham. Example (36a) shows a nominalized clause used in stage-setting, as it is often found in the beginning of narratives. Example (36b) is the first nominalized sentence after a long stretch of non-nominalized sentences in a narrative containing the autobiographical story of a girl who was attacked by an owl. It is self-explaining that the

sentence in (36b) is pivotal for the story. The example also illustrates the use of nominalization in mirative contexts. The sentences in (36c) and (36d) illustrate the third function of main clause nominalization: both represent comments that are set apart from the main event line. They are from the same owl story, uttered as comments, after the whole event has been told. The pragmatic function of nominalization – establishing facts by reifying propositions – also has an effect on the interpretation of non-nominalized clauses. As they are in complementary distribution to the nominalized clauses, the hearer knows that after a non-nominalized clause more information is to come and that the speaker has not finished unfolding the main event line yet.

- (36) a. *eko Selele-Phelele baŋna nwak wa-ya=na=bu*
 one Selele-Phelele so-called bird exist-PST[3SG]=NMLZ.SG=HSY
 ‘(Once) there was a bird called Selele-Phelele.’ [21_nrr_04.01]
- b. *siŋ-choŋ=be so-ŋ=niŋa=go phopciba=le*
 tree-top=LOC look-1SG.A[PST]=CTMP=TOP owl=MIR
we?=na!
 exist[3SG.NPST]=NMLZ.SG
 ‘When I looked up into the tree, there is an owl!’ [42_leg_10.018]
- c. *jeppa nna len ka ... ollobak paro=be*
 really that day 1SG ... almost heaven=LOC
tas-u-ŋ=na
 arrive-3.P[PST]-1SG.A=NMLZ.SG
 ‘Really, that day, ... I had almost gone to heaven.’ [42_leg_10.051]
- d. *a-ŋukhuruk=pe og-a-ŋ=na lo?wa*
 1SG.POSS-head=LOC peck-PST-1SG.P=NMLZ.SG like
en-si-me-ŋ=na
 perceive-MIDDLE-NPST-1SG=NMLZ.SG
 ‘It feels as if it was still pecking me on my head.’ [42_leg_10.056]

The already mentioned mirative use is exemplified by example (37). Yakkha has a contrastive focus particle *=le* which is found in mirative contexts (for examples see (36b) and (38b), cf. Chapter 17). Yakkha has also borrowed the Nepali mirative marker *rahecha* ~ *raicha*, and the overwhelming majority of sentences marked by *rahecha* occur in nominalized form (37).

- (37) *khus-het-u=ha raicha!*
 steal-V2.CARRY.OFF-3.P[PST]=NMLZ.NSG MIR
 ‘He stole it!’ [20_pea_02.016]

In conversations, nominalized main clauses are rather the norm, and non-nominalized clauses are the exception, since conversations can be perceived as constant negotiations about the status of some propositional content. Speakers express their opinions, try to convince the hearers about something, or they ask about facts. In (38a), one can see a deontic clause, containing an assessment of the speaker about the necessity of the propositional content. Example (38b), as mentioned above already, shows another instance of a mirative clause. The speaker, having lost her way in the dark, talks to herself, first asking herself and then correcting her own assumptions about which way leads to her home.

- (38) a. *u-milak meŋ-khok-ma=na=bu, kucuma=ga,*
 3SG.POSS-tail NEG-cut-INF[DEONT]=NMLZ.SG=HSY dog=GEN
kahile=ca
 when=ADD
 ‘Their tail should not be cut off, the dog’s, never.’ [28_cvs_04.225]
- b. *are, he?ne khy-a-ŋ=na lai, ka? lambu=go*
 oh!? where go-PST-1SG=NMLZ.SG EXCLA 1SG way=TOP
na?mo=le sa=na
 down_here=CTR COP.PST[3SG]=NMLZ.SG
 ‘Holy crackers, where did I go? The way was down here!’
 [28_cvs_04.027]

Nominalized main clauses could also be perceived as instances of insubordination – the recruitment of formally subordinate clauses to provide material for new main-clause types (Evans 2007). The semantic range of insubordination is typically associated with interpersonal control, modals, such as hortative and deontic meanings, and presupposed material, contrastive focus, or reiteration. Nominalized main clauses in Yakkha fit the characterization of ‘formally subordinate’, as they are formally identical to embedded clauses (complement clauses and relative clauses). Historically, =na and =ha can be related to a set of demonstratives, which makes plausible both their development to relativizers, complementizers, and also their use in non-embedded clauses (assuming embedding to a zero copula). This reasoning is supported by the fact that the copular structure can also be found synchronically, especially in negated forms as in (39).⁵

- (39) *kanciŋ mōkt-a-ŋ-c-u-ŋ=na men=na*
 1DU[ERG] beat-PST-EXCL-DU.A-3.P-EXCL=NMLZ.SG NEG.COP=NMLZ.SG
 ‘It is not the case that the two of us have beaten him.’ [36_cvs_06.154]

⁵Generally, Kiranti languages do not need a copula for the expression of equation or identification (Bickel (1999c: 276), Ebert (1994: 105)).

However, the high frequency of nominalized main clauses makes it unlikely that synchronically in each instance there is an underlying embedded structure with a zero verb meaning ‘be the case that’.⁶ Rather, the main clause function is the result of reanalyzing a subordinate structure. The same path is described in DeLancey (2011a), who proposed nominalization as the major driving force for syntactic change in Tibeto-Burman:

[...] in many Tibeto-Burman languages the finite construction of the verb reflects an earlier construction in which the sentence or verb phrase is nominalized. The construction often includes a copula, of which the nominalized sentence is then an argument, but the copula may be dropped over time [...] Frequently such constructions lose their marked status and become the ordinary finite construction, resulting in the creation of new verbal categories and systems. (DeLancey 2011a: 343)

The ‘drift from referent identification to event predication and the expression of speaker’s stance’ in Tibeto-Burman languages apparently even belongs to a broader Asian typological picture, as suggested in Yap & Grunow-Hårsta (2010). The Yakkha main clause nominalization might be on its way to lose its marked status and to become an integral part of the verbal person marking, moving on from the domain of pragmatics to syntax. In one finite verb form, this has already happened: in the third person plural intransitive forms, *=ha* is optionally followed by the nominal nonsingular clitic *=ci*, which is not found in any other inflected verbal forms. Other Kiranti languages, e.g. Limbu and Bantawa, employ nominalized forms in tense and aspect marking (van Driem 1993a, Doornenbal 2008).

13.3.3.2 The alignment of *=na* and *=ha* in main clauses

In relative clauses, the choice of *=na* and *=ha* is naturally determined by the number features of the head noun, i.e. *=na* when the head noun has singular number, and *=ha* when it has nonsingular or non-countable reference. In the nominalization of main clauses (and complement clauses as well), since the nominalizers have become part of the predicate, there must be a different strategy. What we find is a combination of role-based and reference-based alignment (see Table 13.2). The examples in (40) illustrate this for intransitive sentences. Here, the sole argument of the clause determines the choice of either *=na* or *=ha*. In transitive verbs, in

⁶Matisoff (1972) made the same conclusion for Lahu.

scenarios with third person objects (3.P) and with third person acting on second person (3>2), one finds ergative alignment. The choice of the markers is determined by the number of the P argument, shown in (41).

- (40) a. *khy-a=na*
go-PST[3SG]=NMLZ.SG
'He/she went.'
- b. *khy-a-ci=ha*
go-PST-DU=NMLZ.NSG
'They (dual) went.'
- (41) a. *na tonba imin et-u-ga=na?*
this beer how like-3.P-2=NMLZ.SG
'How do you like this *tongba*?'⁷
- b. *kha=ci imin et-u-g=ha?*
these=NSG how like-3.P-2=NMLZ.NSG
'How do you like these?'

Reference-based alignment can be found in scenarios with speech-act participant objects, except for 3→2. Nonsingular number outranks singular, which means that as soon as one participant has nonsingular number, the marker =ha has to be used, regardless of the syntactic roles. The marker =na is only found when both A and P have singular number. The combination of role-based and reference-based alignment can also be found for other person markers (see Chapter 8.2).

	INTRANS.	TRANS.						
		1SG.P	1NSG.P	2SG.P	2NSG.P	3SG.P	3NSG.P	
1SG.A	=na			=na	=ha	=na	=ha	
1NSG.A	=ha							
2SG.A	=na	=na	=ha					
2NSG.A	=ha							=ha
3SG.A	=na	=na	=ha					
3NSG.A	=ha			=ha	=na			=ha

Table 13.2: Alignment of the nominalizers =na and =ha

⁷ *Tongba* is beer served in a small barrel, to be drunken through a pipe.

Participants that have non-countable reference trigger *=ha* (42). When mass nouns, e.g. *maŋcwa* ‘water’ or *cabhak* ‘uncooked rice’ trigger the singular marker *=na*, this means that they have a bounded quantity, like water in a cup or one portion of rice. Thus, the nominalizers have also acquired a classificatory function.

- (42) a. *n-jek-les-wa-ŋa-n=na*
 NEG-speak-know-NPST-1SG-NEG=NMLZ.SG
 ‘I do not know how to speak it (one particular word).’
 b. *yakkha ceŋya n-jek-les-wa-ŋa-n=ha*
 Yakkha matter NEG-speak-know-NPST-1SG.A-NEG=NMLZ.NSG
 ‘I do not know how to speak Yakkha.’

If the object is a proposition, *=ha* is found as well, except for complements of verbs of perception and cognition, which show agreement with arguments of the embedded proposition.

- (43) *cilleŋ=be haku nħanto camyŋba py-a; kancin*
 overturn=LOC now since food give-IMP[1.P] 1DU[ERG]
kħin=se naŋ-me-ŋ-c-u-ŋ=ha
 this_much=RESTR ask-NPST-EXCL-DU-3.P-EXCL=NMLZ.NC
 ‘From now on, give us the food in a leaf that is turned around (to the right side); we only ask for this much.’ [22_nrr_05.123]

In ditransitive verbs of the double object frame (see Chapter 11.1.9), the choice of *=na* or *=ha* is determined by the T argument (i.e., indirective alignment), at least if it has third person reference, which is mostly the case. As the regular person marking is determined by the G argument (i.e., secundative alignment), a double object verb ends up indexing all three arguments (A, G and T). The marking may undergo alternations under certain conditions (see Chapter 11.2.2).

- (44) a. *ka nda eko coklet piŋ-nen=na*
 1SG[ERG] 2SG one sweet give[PST]-1>2=NMLZ.SG
 ‘I gave you a sweet.’
 b. *ka nda pyak coklet(=ci) piŋ-nen=ha*
 1SG[ERG] 2SG many sweet(=NSG) give[PST]-1>2=NMLZ.NSG
 ‘I gave you many sweets.’

13.4 Correlative clauses

The correlative construction consists of a relative clause and a main clause. The first clause contains a deictic element that narrows down the possible reference,

and the second clause contains the statement about that referent. This parallelism of question and answer was also called ‘correlative diptych’ by Lehmann (1988), because both clauses contain a reference to the participant about whom a statement is made. As Yakkha does not have relative pronouns, it utilizes interrogative pronouns in the relative clause. The main clause contains a noun or a demonstrative.

Bickel (1999d: 25) suggests that the correlative construction has developed from a commonly found strategy of structuring discourse, which he calls ‘Informational Diptych’, in parallel to Lehmann’s terminology. Here, too, the first part is used to announce the kind of information one would supply, often followed by a topic marker, before conveying the information in the second part of the diptych. This strategy is common also in Yakkha, especially in narratives (see Chapter 17).

All kinds of participants and relations can be expressed with correlative clauses: quantities, locations, points in time, manner. The relation in (45a) expresses the amount of an object, (45b) shows relativization over a possessor, while (45c) relativizes over a temporal reference.

- (45) a. *ka ikhiŋ nis-uks-u-ŋ, khiŋ*
 1SG[ERG] how_much know-PRF-3.P[PST]-1SG as_much
ka-me-ŋ=na
 say-NPST-1SG=NMLZ.SG
 ‘I will say as much as I (got to) know.’
- b. *isa=ga u-cya=ci mōkt-u-ci=ha uŋ*
 who=GEN 3SG.POSS-child=NSG beat-3.P[PST]-3NSG.P=NMLZ.NSG 3SG
bappura=ci!
 pitiful_person=NSG
 ‘The poor people whose children got beaten!’ (Lit.: ‘Those whose children got beaten are pitiful.’)
- [41_leg_09.042]
- c. *heʔniŋ hoŋ-khe-me ŋkhatniŋ=ŋa ka=ca*
 when crumble-V2.GO-NPST[3SG] then=INS 1SG=ADD
sy-a=na mit-a
 die-PST[3SG]=NMLZ.SG think-IMP[1.P]
 ‘When it (the stele) crumbles down, consider me dead, too.’
- [18_nrr_03.017-018]

Usually, the question pronoun in the relative clause and the demonstrative in the main clause come from the same paradigm, but the next example shows that this is not a rigorous constraint. While the question pronoun in the relative clause

refers to a location, the corresponding noun phrase in the main clause refers to the food found in this location.

- (46) *nhaŋ heʔne camyɔŋba wa=ya nakha camyɔŋba*
 and_then where food exist[3SG]-SBJV that food
nak-se khe-i
 ask-SUP go-1PL[SBJV]
 ‘Let us go where the food is, to ask for that food, they said.’ [14_nrr_02.009]

Correlative clauses are rather known as a typical Indo-Aryan feature. They are not very common in Tibeto-Burman languages further north, which suggests that correlative clauses in Yakkha have developed as calques on Nepali correlative clauses.

14 Adverbial clause linkage

14.1 Introduction

This chapter deals with the types of adverbial clause linkage in Yakkha. Adverbial clause linkage is defined here in a broad sense, i.e. as any type of clause linkage that does not result from verbal subcategorization (i.e. complement clauses) and nominal modification (i.e. relative clauses). Adverbial clauses are always marked by clause-final morphemes, and generally display the same constituent order as in independent clauses. Despite being quite diverse formally, what they all have in common is a functional property: they modify the propositional content of a clause adverbially. Adverbial clauses lack an autonomous profile; the event they refer to has to be interpreted in the perspective of another event.¹

The majority of clause linkage variables analyzed here suggest that adverbial clause linkage in Yakkha falls into two basic types: (i) converbal clauses,² non-finite, with overall operator scope and (ii) finite³ adverbial clauses (containing an inflected verb), allowing not only overall, but also main clause operator scope. Table 14.1 roughly summarizes their characteristics (see also Bierkandt & Schackow (submitted)).⁴ However, the individual clause linkage types show varying degrees of semantic integration and dependency on the main clause, and the morphosyntactic properties of these adverbial clauses do not always correlate in expected ways. Distinctions made by one variable, e.g. coreference of certain arguments,

¹The lack of an autonomous profile is, of course, also true for complement clauses and relative clause, see e.g. the definition of subordination in Cristofaro (2003).

²See e.g. Haspelmath (1995), who defines converbs as non-finite adverbial forms that modify verbs or clauses.

³'Finiteness' is understood here as a property of the verb. Used in this sense, finiteness does not entail all the properties typically associated with main clauses. Although the verb carries inflectional markers (for person, TAM and negation) and can thus be regarded as finite in some types of adverbial clauses, these clauses cannot, for instance, have a right-detached position. Likewise, they cannot contain certain clause-level operators such as the mirative *rahecha* (see also Lehmann (1988: 220) for a scale of desentailization in clause linkage typology).

⁴The percentages given in this chapter rely on the corpus described in Chapter 1.3.2, containing 3012 clauses and roughly 13.000 annotated words.

may be crosscut by other variables, e.g. finiteness or operator scope, adding support to notions of clause linkage as an essentially multidimensional phenomenon (which are at least as old as Haiman & Thompson (1984)). Some variables, like center-embedding (not embedding in the structural sense, only positional, see below), have to be assessed statistically, not categorically. Furthermore, a comparison of illocutionary operators and negation reveals that operator scope does not always behave in a uniform way. Thus, a definition of types of adverbial clause linkage (and also any other subordination type) necessitates a fine-grained analysis of a considerable number variables, in order to see how the properties cluster in particular languages (cf. Bickel (2010a) for a general approach and Schackow et al. (2012) for a case study on Puma (also Kiranti)).

VARIABLES	CONVERBAL	FINITE
finiteness	stem	inflected verb
shared S/A arguments	mostly	constraint-free
operator scope (polarity, illoc.)	overall	overall or main clause only
center-embedding	between 15 and 33 %	maximally 2 %

Table 14.1: Some characteristics of converbal and finite clause linkage

Table 14.2 shows an overview of the individual Yakkha clause linkage types and their markers, classified according to their semantics. Apart from the two major types just mentioned, other types such as infinitival adverbial clauses are possible. Some of the clause linkage markers participate in more than one clause linkage construction, e.g. *=hoŋ* (sequential clauses, narrative clause-chaining) and *=nuŋ* (circumstantial clauses and temporal clauses with the meaning ‘as long as’). Some markers may combine with information-structural particles to yield further types, such as concessive and counterfactual clauses. The forms also demonstrate another common Tibeto-Burman characteristic: the use of case markers for clause linkage (cf. case markers for genitive *=ga*, ergative *=ŋa* and comitative *=nuŋ*).

In the remainder of this chapter, the clause linkage constructions will be discussed with regard to their morphosyntactic and semantic properties. Important parameters are operator scope, focussing possibilities and the ability to occur center-embedded (a statistical rather than a categorical variable in Yakkha). An adverbial clause is center-embedded if it occurs inside the main clause, i.e. if it is both preceded and succeeded by material of the main clause (examples will be shown in the individual sections).

TYPE	SEMANTICS	MARKER
converbal	supine, purpose of movement	-se
infinitival	purpose	-ma=ga
infinitival	causal	-ma=ŋa
converbal	simultaneous, manner	-saŋ
converbal	negation	meN-...-le
infinitival	manner ('...ly/in a way that', 'as much as')	=nuŋ
finite (SBJV)	temporal ('as long as')	=nuŋ
finite/infinitival	conditional, temporal	bhoŋ
finite (OPT)	purpose	bhoŋ
finite/infinitival	sequential	=hoŋ
finite	narrative clause chaining	=hoŋ
finite	concessive	=hoŋ=ca
finite	cotemporal	=niŋ(a)
finite	counterfactual	=niŋ(=go)=bi ~ =hoŋ(=go)bi
finite	interruptive	=lo

Table 14.2: Adverbial clause linkage types in Yakkha

Among the scope properties, the main distinction is that between overall scope and main clause scope (as proposed in Bierkandt & Schackow (submitted)). Overall scope implies that the operator has scope over the whole sentence, including the link between the two events, as in (1): the negation has scope over the whole event, allowing for different interpretations, depending on the question where the focus is (e.g. on 'he', on 'play', on 'after', on 'ate' and so on). This scope type indicates a rather close semantic link between the two clauses, and may lead to phenomena such as 'negative transport', as we will see below (cf. Horn 1989: Ch. 5, and Bickel 1993 for Belhare).

- (1) *He did not play after he ate.*

In the case of main clause scope, in contrast, the operator does not reach beyond the main clause, as exemplified by (2). The value of the scope parameter is straightforward to establish for negation, but it is potentially problematic for illocutionary force (cf. below).

- (2) *After reaching his home, he did not feel like eating any more.*

14.2 The supine converb -se

The supine converb is marked by the suffix *-se* attaching directly to the stem of the verb in the dependent clause. The converbal clause expresses the purpose of a motion event or caused motion event, i.e. the verb in the main clause always has to have motion semantics. The moving participant of the main clause has to be coreferential with the S or A of the supine clause: if the main verb is intransitive, the subjects of both clauses have to be coreferential (see (3a)); if the main verb is transitive, the subject of the converbal clause is coreferential with the P of the main clause (see (3b)).

- (3) a. *yakkha ceʔya cin-se ta-ya-ŋ=na*
 Yakkha language learn-SUP come-PST-1SG=NMLZ.SG
 ‘I came to learn the Yakkha language.’
 b. *a-ppa=ŋa yaŋ nak-se paks-a-ŋ=na*
 1SG.POSS-father=ERG money ask-SUP send-PST-1SG.P=NMLZ.SG
 ‘Father sent me to ask for money.’ [01_leg_07.202]

For one speaker, who lives in Kathmandu since many years, the constraint on coreference appeared to be less strict. The subject of *uŋma* ‘drink’ in (4) is coreferential with the G argument of the main verb, not with the argument that is caused to move.⁵

- (4) *raksi uŋ-se ŋgha=ci=ha jammai jammai*
 liquor drink-SUP those=NSG=NMLZ.NSG all all
ŋ-haps-u-bi-wa-ci=ha
 3PL.A-distribute-3.P-V2.GIVE-NPST-3NSG.P=NMLZ.NSG
 ‘They distribute the liquor among all the people, in order to drink it.’
 [25_tra_01.130]

The subordinate clause can be center-embedded, exemplified here by (5a):⁶ the verb *whapma* would license an ergative, but an ergative is ungrammatical here, because the overt argument belongs to the intransitive main clause. Center-embedding can also be determined by semantic factors, as in (5b). The deictic adverb *to* belongs to the main clause, as such adverbs generally come with motion verbs. In 33,8% of the cases positive evidence for the converbal clause to be center-

⁵This might be due to influence from parallel constructions in Nepali that are less constrained with regard to coreference.

⁶See also example (3b).

embedded was found, the highest number among the adverbial clauses.⁷ Examples (4) and (5) also show that dependent and main verb do not have to be adjacent, but in most cases they are.

- (5) a. *maghyam*(*=*ŋa*) *tek=ci* *whap-se* *hoŋma=be*
 old_woman(*=*erg*) fabric=*NSG* wash-SUP river=*LOC*
khy-a-ma
 go[3SG]-PST-PRF
 ‘The old woman went to the river to wash clothes.’ [01_leg_07.286]
- b. *ka to cin-se=ca* *kheʔ-ma* *ŋan*
 1SG up teach-SUP=ADD go-INF[DEONT] COP.1SG
 ‘I have to go up to teach, too.’ [36_cvs_06.102]

Occasionally, the supine converbal marker *-se* is found in combination with the conjunction *bhoŋ*, which is used for conditional, complement and purpose clauses (see §14.9), and which is less restricted semantically and in terms of coreference. In (6a), the reason for adding this conjunction is probably that the requirement of coreference between the A of the converbal clause and the P of the transitive motion verb is not met. The reason why the conjunction is used in (6b) is not clear, however.

- (6) a. *ŋkha u-in=ci* *taŋ-se* *bhoŋ a-muk*
 those 3SG.POSS-egg=*NSG* take_out-SUP PURP 1SG.POSS-hand
end-u-ŋ=niŋa=go...
 insert-3.P[PST]-1SG.A=CTMP=TOP
 ‘When I put my hand inside (the hole in the tree) to take out its eggs,
 ...’ [42_leg_10.028]
- b. *maŋdu ten=bhaŋ* *nniŋda tup-se* *bhoŋ*
 distant village=*ABL* 2PL meet-SUP PURP
ta-i-mi-ŋ=ha *i,* *aŋoŋba=ci*
 come-1PL[PST]-PRF-EXCL=*NMLZ.NSG* FOC brother_in-law=*NSG*
 ‘We came from far away from (our) villages to meet you, brothers-in-law.’ [41_leg_09.028]

⁷All percentages are from (Bierkandt & Schackow submitted), who used the same corpus that serves as database for this grammar, containing 3012 clauses. The positive evidence established does not tell us anything about the percentage of clauses that are not center-embedded, because this information can only be established in clauses with a sufficient number of overt argument.

A supine clause is tightly linked to the main clause; any operator which can be attached to the main verb, whether of negation or of illocutionary force, will have scope over the whole complex event of movement with a purpose, illustrated for deontic modality in (5b) above and for imperative, hortative and interrogative mood in (7) below.

- (7) a. *ah, so-se ab-a-ci, au?*
 yes look-SUP come_over-IMP-DU INSIST
 ‘Yes, please come over to look (at the newlyweds), will you?’
 [36_cvs_06.416]
- b. *khi khon-se pun̄da=be khe-ci*
 yam dig-SUP forest=LOC go-DU[HORT]
 ‘Let us go into the forest to dig yams.’
 [40_leg_08.006]
- c. *wa=ci ijaŋ ca ca-se*
 chicken=NSG why food eat-SUP
n-da-me-n=ha=ci?
 NEG-COME-NPST-NEG=NMLZ.NSG=NSG
 ‘Why do the chicken not come to eat?’
 [40_leg_08.069]

It is, however, possible to focus on the event denoted by the supine clause, as the next example illustrates by means of negation. The motion verb in the main clause contains the presupposed information and the supine clause contains the asserted information. In fact, this is the case for the majority of supine converbal constructions.⁸ In (8a), the speaker corrects another speaker’s claim that the researcher came to do sightseeing. Hence, the purpose of coming is the controversial information, not the fact that she came. The purpose clause which contains the previous claim hosts the topic marker =go, while the new, corrected purpose clause receives the contrastive focus marker =le, which is also frequently found in mirative contexts. Both operators are otherwise found on constituents, not at the end of clauses, which indicates that the converbal clause is not clause-like, but occupies the structural position of an adverbial in the sentence. The negated copula in (8a) emphasizes the contrast between purpose 1 and purpose 2. The same clause could also be paraphrased by (8b), with the negation marked on the main verb, and the converbal clause attracting focus.⁹

⁸As also noted by Haspelmath (1995: 12-7), a subordinate clause (which converbal clauses are) narrows down the reference of the main clause.

⁹In such a clause, the default reading is the one where the converbal clause attracts focus, but it could also entail that whole event of ‘coming in order to look’ did not take place.

- (8) a. *so-se=go men=na, por-a cok-se=le*
 look-SUP=TOP NEG.COP.3SG=NMLZ.SG study-NATIV do-SUP=CTR
ta-ya-ma=na
 come[3SG]-PST-PRF=NMLZ.SG
 ‘Not to look (at our village), she came to STUDY!’ [28_cvs_04.165]
- b. *so-se n-da-ya-ma-n=na*
 look-SUP NEG-come[3SG]-PST-PRF-NEG=NMLZ.SG
 ‘She did not come to look.’

Example (9) illustrates the same point for the scope and focus of questions. While the scope is over the whole event, i.e. over the connection between dependent and main clause, the focus of the question targets the converbal clause. This sentence was uttered when two people met at a water tap, and hence, the main verb ‘come’ must be part of the presupposition.¹⁰

- (9) *tek whap-se ta-ya-ga=na?*
 clothes wash-SUP come-PST-2=NMLZ.SG
 ‘Did you come to wash clothes?’

Example (10) and (11) illustrate that the focus inherent in the negation (and the illocutionary force in (10)) may either be on the supine clause or on the whole event, but not on the main clause alone. Regardless of the focus options, both (10a) and (10b) can be circumscribed with ‘It is not the case that you should go to watch the bride’,¹¹ and (8a) can be circumscribed with ‘It is not the case that she came to study’. Thus, negating the supine clause necessarily results in the negation of the whole event, just as negating the main event necessarily entails the negation of the purposive event, because it is always interpreted in the perspective of the main clause.

Negating the main event without negating the purposive event is not possible with -se (see unacceptable (11a)). In order to achieve such an interpretation, a different strategy has to be used, namely the less restrictive purpose construction with the infinitive and *bhoŋ* (11b).

- (10) a. *beuli so-se ŋ-khy-a-n, cama ca-se seppa!*
 bride look-SUP NEG-go-IMP-NEG food eat-SUP RESTR
 ‘Do not go to look at the bride, only to eat the food.’
- b. *beuli so-se ŋ-khy-a-n, ka=nun wa-ya!*
 bride look-SUP NEG-go-IMP-NEG 1SG=COM stay-IMP

¹⁰Questions relating to what one is doing or where one is going are a common way of greeting someone in the colloquial register.

¹¹Two interpretations are possible: the absence of obligation, or a prohibition.

‘Do not go to look at the bride, stay with me!’

- (11) a. **im-se bhya=be η-khy-a-ηa-n=na*
 sleep-SUP wedding=LOC NEG-go-PST-1SG-NEG=NMLZ.SG
 Intended: ‘In order to sleep, I skipped the wedding.’
 (possible, but implausible reading: ‘I did not go to the wedding to sleep.’)
- b. *im-ma bhon bhya=be η-khy-a-ηa-n=na*
 sleep-INF PURP wedding=LOC NEG-go-PST-1SG-NEG=NMLZ.SG
 ‘In order to sleep, I skipped the wedding.’

It has already been mentioned above that discourse particles targeting constituents, such as the topic marker =go and the focus marker =le, can be attached to supine clauses. Other constituent focus markers found on supine clauses are the additive focus particle =ca (see (12a)) and the restrictive focus particle =se (see (12b)). In (12a), the additive focus marker has scope over the whole event; the event of going is not presupposed here. However, as main clauses cannot host constituent focus markers, =ca has to be attached to the converbal clause. The situation is different in (12b), where the restrictive focus marker =se targets only the event denoted by the converbal clause.

- (12) a. *kanin piknik ca-se=ca khe-i-mi-η=ha*
 1PL picnic eat-SUP=ADD go-1PL[PST]-PRF-EXCL=NMLZ.NSG
 ‘We also went for a picnic.’ [01_leg_07.268]
- b. *chemha un-se=se ta-ya=na, eη=ga*
 liquor drink-SUP=RESTR come[3SG]-PST=NMLZ.SG 1PL.INCL=GEN
ce?ya cin-se n-da-ya-n=na!
 language learn-SUP NEG-come[3SG]-PST-NEG=NMLZ.SG
 ‘He just came to drink liquor, not to study our language.’

As already shown above, the converbal clause and the main clause may have intervening constituents between them, although the corpus does not contain many instances of this. In (13), the question word constitutes the focussed information and is thus found in the preverbal position, the preferred position for focussed constituents.

- (13) *tukkhi ca-se i khe?-ma=lai?*
 pain eat-SUP what go-INF[DEONT]=EXCLA
 ‘Why should I go (and marry) to earn troubles?’ [06_cvs_01.052]

14.3 Infinitival purpose clauses in *-ma=ga*

Another way of expressing purpose involves an infinitive which is marked by the genitive marker (cf. Chapter 5.2.2.4). The purposive use of the genitive seems to be interchangeable with purpose clauses in *bhoŋ* (discussed below), but *bhoŋ* is not restricted to infinitives and, thus, more frequent. This construction is not only found with motion events; any event happening for the sake of another event can be expressed like in (14). The clause linkage is less tight here. There is no constraint on the coreferentiality of the arguments. In (14a), one could argue that the constituent marked by the genitive is actually modifying the noun (*kuṭuni*), but one also finds plenty of examples like (14b) and (c), where there is no noun. Argument marking remains as in simple clauses, as is evidenced by (c). This example also shows that the infinitive of purpose can be negated independently.

- (14) a. *khon nak-se khe?-ma=ga eko kuṭuni*
 afterwards ask-SUP go-INF=GEN one matchmaker
n-yog-wa
 3PL.A-search-NPST[3.P]
 ‘In order to go and ask (for the bride), they look for a matchmaker.’
 [25_tra_01.04]
- b. *kaĩci kob-u=hoŋ hek-ma=ga thag-u=na*
 scissors pick_up-3.P=SEQ cut-INF=GEN open-3.P[PST]=NMLZ.SG
 ‘He picked up and opened the scissors in order to cut (something).’
 [Cut-and-break clips, Bohnemeyer et al. (2010)]
- c. *uŋci=ŋa men-ni-ma=ga cum-i*
 3NSG=ERG NEG-see-INF=GEN hide-1PL[PST]
 ‘We hid, so that they would not see us.’

14.4 Infinitival causal clauses in *-ma=ŋa*

Infinitives carrying an ergative marker are interpreted as finite causal adverbial clauses, as in (15). Causal interpretations may however also obtain in temporal clauses marked by *=niŋ* and *=hoŋ*. The causal infinitives require coreference of the dependent and main clause S and A arguments, while the finite clause linkage types show no constraints in this respect.

- (15) a. *cun=chen pyak tun-me=hoŋ=ca yoniŋ-kheniŋ*
 cold=TOP very hurt-NPST=SEQ=ADD thither-hither
koʔ-ma=ŋa, camenwa ca-saŋ lak-ma puk-ma=ŋa
 walk-INF=ERG.CL food eat-SIM dance-INF jump-INF=ERG.CL
ina=ca thaha l-leks-a-n=na.
 what=ADD knowledge NEG-become-PST-NEG=NMLZ.SG
 ‘Even though it was very cold, because of walking around, eating,
 dancing and jumping, we did not notice anything.’ [01_leg_07.270]
- b. *leʔnamcuk punʔa koʔ-ma=ŋa sak*
 whole_day jungle walk-INF=ERG hunger
tug-a-by-a.
 hurt[3SG]-PST-V2.GIVE-PST
 ‘Having wandered around in the jungle the whole day, we got hungry.’
 [40_leg_08.016]

14.5 The simultaneous converb *-saŋ*

The simultaneous converb, marked by the suffix *-saŋ* attaching directly to the verbal stem, connects two events that happen at the same time or during the same period (see (16a)). The verb in the converbal clause cannot host any inflectional morphology; the converbal clause is dependent on the main clause regarding its TAM interpretation and the reference of its arguments. The converbal clause may also express the manner of how the main activity is done (see (16b), (c) and (17)). The S and A arguments of both clauses have to be coreferential. The construction cannot be used to refer to events that start during another event, i.e. for propositions like ‘While walking, I slipped and fell’. Both events have to be ongoing at the point of reference. Punctual verbs like ‘cough’ and ‘jump’ receive an iterative reading in a converbal clause in *-saŋ* ((16b) is an example).

- (16) a. *yapmi paŋ-paŋ=be nak-saŋ kheʔ-ma*
 people house-house=LOC ask-SIM go-INF[DEONT]
 ‘The people have to go from house to house, asking (for food).’
 [14_nrr_02.30]
- b. *khi=ga u-thap yok-saŋ maŋcusiŋcu*
 yam=GEN 3SG.POSS-plant poke-SIM so-and-so
khond-a-ŋ-c-u-ŋ
 dig_out-PST-EXCL-DU-3.P-EXCL
 ‘Poking the yam plants, we somehow dug around (without satisfying results).’
 [40_leg_08.012]

- c. *sondu=ŋa kisi-saŋ luks-u:*
 Sondu=ERG be_afraid-SIM tell-3.P[PST]
 ‘Frightened, Sondu told him: ...’ [01_leg_07.200]

The case marking of the subjects in example (16a) and (16c) provides evidence for the converbal clause occurring center-embedded, which could be affirmed for 15% of the simultaneous converb clauses in the present corpus. The nominative case in (16a) and the ergative case in (16c) undoubtedly belong to the respective main verbs, as the verbs in the converbal clauses would license different case marking (see Chapter 11.1). The opposite scenario can also be found, where the overt argument belongs to the converbal clause, as in (17), where the main verb would have licensed an ergative case marker.

- (17) *sondu consi-saŋ inca-ma=ga khet-uks-u-ci*
 Sondu be_happy-SIM sell-INF=GEN carry_off-PRF-3.P[PST]-3NSG.P
 ‘Happily, Sondu carried them (the fish) off to sell them.’ [01_leg_07.229]

The above mentioned coreference constraint is strictly semantic, applying irrespective of the question of argument realization. In (18), the subject is a non-canonically marked experiencer, realized as the ‘possessor’ of the laziness (cf. Chapter 11.1.10). As long as the argument is highest-ranking in terms of semantic roles, i.e. most agent-like, it qualifies for the coreference constraint of the simultaneous converb.¹²

- (18) *o-pomma ke-saŋ ke-saŋ kam cog-wa*
 3SG.POSS-laziness come_up-SIM come_up-SIM work do-NPST[3SG.A;3.P]
 ‘He does the work lazily.’

The constraint on coreference can be weakened under certain conditions: in constructions with unspecific or generic reference, it is not always observed (see (19a)). The sentence in (19b) is interesting because the subjects of two converbal clauses have to be combined to yield the reference of the main clause subject.

- (19) a. *sala len-saŋ len-saŋ len khe-meʔ=na*
 matter exchange-SIM exchange-SIM day go-NPST[3SG]=NMLZ
 ‘Chatting and chatting the day goes by.’
 b. *lok kho-saŋ yunca-saŋ ghak pog-i-ŋ*
 anger scratch-SIM laugh-SIM all stand_up-1PL-EXCL
 ‘Partly angry, partly laughing, we all got up.’ [40_leg_08.042]

¹²The reduplication of the converb, as in this particular example, signifies either ongoing or iterative events.

Despite the close bonds between converbal clause and main clause, the converbal clause may have considerable length and internal complexity, as shown in example (20a), which features embedded direct thought in its converbal clause. One also finds sequences of several converbal clauses linked to one main verb, as in (20b) from a procedural text (cf. also (19b)).

- (20) a. *ka=go yapmi isi? ŋan=na rahecha mis-san*
 1SG=TOP person ugly COP.1SG=NMLZ.SG MIR think-SIM
u-ma las-apt-uks-u
 3SG.POSS-mother return-V2.BRING-PRF-3.P[PST]
 ‘Thinking: “I am a bad person!”, he brought his mother home.’
 [01_leg_07.081]
- b. *mangangba=ŋa hon=na yon-san munthum*
 ritual_specialist=ERG that_very=NMLZ.SG shake-SIM ritual_knowledge
thak-san haks-wa=na
 recite-SIM send-NPST[3.P]=NMLZ.SG
 ‘Shaking that (gourd) and reciting the Munthum, the Manggangba does the worship.’
 [01_leg_07.135]

It should also be mentioned that this converbal structure is also used for a periphrastic continuative aspect construction that is probably calqued upon a similar structure in Nepali (see (21), and Chapter 8.4).

- (21) *uŋ tamba pu-san pu-san khy-a-ma=hon,*
 3SG slowly grow-SIM grow-SIM go[3SG]-PST-PRF=SEQ
 ‘Having grown slowly, ...’
 [01_leg_07.005]

The simultaneous converb is interesting with regard to scope and focus properties, because it shows that negation and illocutionary force operators may show distinct behavior.

Let us first consider negation. Always marked on the main verb, the negation scopes over the whole event, ([A while B]NEG). The focus of the negation, however, is attracted by the converbal clause, also known as ‘negative transport’ (Horn 1989). As pointed out by Bickel (1993) on the corresponding converbal construction in Belhare, the converbal clause conveys rhematic information, elaborating on the main predication, and as such qualifies for being focussed on. A sentence like (22a) cannot be interpreted with only the main predicate negated, as the whole sentence is under the scope of the negation. To convey an interpretation with negation focussing the main clause, another construction, for instance the causal

construction in (22b), has to be used (cf. also (Bierkandt & Schackow submitted)). A reading with the main clause negated is not possible under any circumstances.

- (22) a. *sala len-saŋ kam n-jog-u-m-nin=ha*
 matter exchange-SIM work NEG-do-3.P[PST]-1PL.A-PL.NEG=NMLZ.NSG
 *‘Chatting, we didn’t work.’
 ‘We didn’t work chatting (but quietly).’
 b. *sala lem-ma=ŋa kam*
 matter exchange-INF=ERG work
n-jog-u-m-nin=ha
 NEG-do-3.P[PST]-1PL.A-PL.NEG=NMLZ.NSG
 ‘As/Because we chatted, we didn’t work.’

Negating both subevents at the same time is impossible as well. One sub-clause has to be foregrounded, similar to the effect of dissociating Figure and Ground that is known from Gestalt psychology (see e.g. Jackendoff (1983), called ‘Rubin effect’ in Bickel (1991: 48)). In other types of clause linkage, the choice may fall on either of the clauses, but the simultaneous converb allows only one reading with regard to negation. It is thus different from the supine converb, where negation could as well have a coordinative reading, i.e. with both subevents negated.

- (23) *chem lu-saŋ n-lakt-i-ŋa-n=ha*
 song sing-SIM NEG-dance-1PL-EXCL-NEG=NMLZ.NSG
 *‘We didn’t sing and didn’t dance.’
 ‘We didn’t dance singing.’

Looking at the behavior of illocutionary operators, the picture is different, though. Illocutionary operators have scope over the whole event, too ([A while B]ILLOC), but this may result either in focus on the converbal clause (with the main clause presupposed, see the question in (24a)), or in focus on both clauses (with nothing presupposed, see the question in (24b) and the imperatives in (24c) and (24d)). Thus, illocutionary operators behave differently from polarity operators in the simultaneous converb construction.

- (24) a. *kos-saŋ tai-ka=na, a-na=u?*
 walk_around-SIM come[NPST]-2SG=NMLZ.SG 1SG.POSS-eZ=VOC
 ‘Do you come walking, sister? (Did you come to us on a walk?)’
 [36_cvs_06.564]
 b. *chem lus-saŋ lakt-i-g=ha=i?*
 song sing-SIM dance-2PL[PST]-2-NMLZ.NSG=Q
 ‘Did you sing and dance?’

- c. *chem lu-san lakt-a-ni!*
 song sing-SIM dance-IMP-PL
 ‘Sing and dance!’
- d. *honkha so-san so-san paŋ=be las-a-khy-a*
 those_very look-SIM look-SIM house=LOC return-IMP-V2.GO-IMP
yu a-cya
 EXCLA 1SG.POSS-child
 ‘Look at those (sticks marking the way) and go home, my son.’
 [01_leg_07.078]

14.6 The negative converb *meN...le*

The negative converb is marked by the prefix *meN-* and the suffix *-le* being attached to the uninflected verb stem. The reason not to analyze these markers as a circumfix is that the prefix *meN-* occurs as negation marker in other syntactic contexts as well, for instance with infinitives and nominalizations, and occasionally in comitative clause linkage. The negative converb is used to express that the event in the main clause will take place without another event, as shown in example (25). Apart from the negation, its semantics are rather unspecified, e.g. with regard to the temporal relation obtaining between the clauses. In (25), the events are in a sequential relationship; in (26) they happen at the same time. Roughly 14% of negative converbal clauses were found center-embedded.

- (25) a. *ka cama men-ja-le ŋ-im-meʔ-ŋa-n=na*
 1SG food NEG-eat-CVB NEG-sleep-NPST-1SG-NEG=NMLZ.SG
 ‘I will not go to sleep without eating.’
- b. *yo=na paŋ=be men-da-le*
 across=NMLZ.SG house=LOC NEG-arrive-CVB
hiks-a-ab-a-ŋ=na
 return-PST-V2.COME-PST-1SG=NMLZ.SG
 ‘I came back without reaching the house across.’

Although the verb in the converbal clause does not carry inflectional markers, there is no constraint on the coreference of any arguments. The identification of the referents is resolved by the context alone. In my Yakkha corpus, the S or A of the converbal clause is not controlled by the main clause S or A argument in 42.9% of the cases. An example is given in (26).

- (26) *u-ppa=ŋa* *tha* *men-dok-le* *nasa-lapmana=nun*
 3SG.POSS-father=ERG knowledge NEG-get-CVB fish-rod=COM
phurlun *khēt-uks-u-ci=hoŋ* *hoŋma=be*
 small_basket carry_off-PRF-3.P[PST]-3NSG.P=SEQ river=LOC
khy-a-ma.
 go[3SG]-PST-PRF
 ‘Without his father noticing, he (the son) carried off the fishing net and the
 basket and went to the river.’ [01_leg_07.210]

A rather unexpected finding is that the negative converbal clause can be turned into an adnominal modifier by means of the nominalizers =*na* and =*ha*. This possibility is not attested for the other converbal clauses.

- (27) a. *men-sen-siʔ-le=na* *mendhwak*
 NEG-clean-V2.PREVENT-CVB=NMLZ.SG goat
 ‘an uncastrated goat’ [31_mat_01.071]
 b. *u-lan* *men-da-le=na* *piccha*
 3SG.POSS-leg NEG-come-CVB=NMLZ.SG child
 ‘the child that cannot walk yet’

As for operator scope, the scope of negation includes the link between the clauses, and is thus over the whole sentence ([neg.A and B]NEG), as was illustrated in example (25a) above.

The illocutionary operators have scope over the whole sentence as well ([neg.A and B]ILLOC), and, as we have already seen for the converbs discussed above, the converbal clause often attracts focus. In example (28a), a question uttered when someone fell down, the event stated in the main clause is presupposed; the focus of the question lies on *lambu mensoʔle*. Example (28b) illustrates that the converbal clause may contain presupposed information as well; it is taken from a discussion about learning methods, in which the speaker stresses how important listening is for learning.

- (28) a. *lambu men-soʔ-le* *lam-a-ga=na?*
 way NEG-look-CVB walk-PST-2=NMLZ.SG
 ‘Did you walk without watching the road?’
 b. *meŋ-khem-le* *i=ya* *nis-wa-m=ha?*
 NEG-listen-CVB what=NMLZ.NSG know-NPST-1PL.A[3.P]=NMLZ.NSG
 ‘What will we know without listening?’

In (29a), the converbal clause states a (negative) condition for the deontically modalized main clause: the event in the main clause has to happen within a time

span specified by the converbal clause, which can be paraphrased by ‘as long as not (X)’. The deontic modality has scope over the whole sentence, and the negative converbal clause is even focussed. The condition it contains is integral to the requirement stated. Similarly, in (29b) a, the converbal clause stands in a conditional relation to the main clause. Optionally, the Nepali postposition *samma* ‘until’ can be added to the converbal clause to emphasize this.

- (29) a. *om me-leŋ-le las-a=hoŋ pheri to thithi*
 bright NEG-become-CVB return[3SG]-SBJV=SEQ again up upright
em-di?-ma=bu
 stand-V2.GIVE-INF[DEONT]=HSY
 ‘Before the daylight, it (the rock) had to return and stand upright again
 (they say).’ [37_nrr_07.051]
- b. *bagdata men-nak-le samma, [...]*
 marriage_finalization NEG-ask-CVB until [...]
 ‘As long as the Bagdata (ritual) is not asked for, (the marriage is not
 finalized).’ [26_tra_02.030]

Constituents within the clause may carry focus markers. Consider example (30), with the interrogative pronoun being focussed on by the additive focus particle =*ca*, that results in exhaustive negation ‘any’ in combination with the negative converb.

- (30) *kanciŋ i=ca meŋ-ka-le sok-khusa=se*
 1DU what=ADD NEG-say-CVB look-RECIP=RESTR
ca-ya-ŋ-ci-ŋ
 eat.AUX-PST-EXCL-DU-EXCL
 ‘Without saying anything, we just looked at each other.’ [40_leg_08.070]

14.7 Comitative clause linkage in =*nuŋ*

Comitative clause linkage is the semantically least specified clause linkage type. It covers a wide functional range, specifying the manner, time span or some other circumstance under which the main event proceeds. The marker =*nuŋ* is homophonous with the comitative case marker, thus conforming to a common Tibeto-Burman tendency of utilizing case markers as clause linkage markers. This clause linkage type is rather rare in the present corpus.

The comitative clause linkage is not only semantically rather underspecified, it is not so restricted in formal terms either. The clitic =*nuŋ* may attach to uninflected stems (see (31a)), to infinitives (see (31b) and (c)), or to inflected verbs (see (31d)),

yielding more or less similar manner or circumstantial readings, paraphrasable by ‘in a way that’ (as distinct from causal or consecutive ‘so that’).

There are no constraints on coreference. In (31a), the referents of the respective S and A arguments are not identical, while in (31b) they are. The example in (31a) could alternatively be expressed by the negative converb construction discussed above in §14.6.

- (31) a. *kaniŋ asen men-ni=nunj men-ni=nunj=ca*
 1PL[ERG] yesterday NEG-know=COM.CL NEG-know=COM.CL=ADD
isisi leks-a-ma=ha
 ugly happen[3SG]-PST-PRF=NMLZ.NSG
 ‘Yesterday, without us noticing, too, something bad has happened.’
 [41_leg_09.064]
- b. *kam=ca cok-ma haʔlo mimik, ya-ma=nunj!*
 work=ADD do-INF EXCLA a_little be_able-INF=COM.CL
 ‘One also has to work, man — at least a little (in a way that one manages to do it/as much as one can)!’
 [28_cvs_04.326]
- c. *a-pum si-ma=nunj unj-wa*
 1SG.POSS-grandfather kill-INF=COM.CL drink-NPST[3.P]
 ‘My grandpa drinks in a way that will make him drunk (i.e. too much).’
- d. *khaʔningo liŋkha ekdam cog-a-nunj*
 but a_clan very_much do[3SG]-SBJV=COM.CL
cog-a-nunj bis wora khibak=ca
 do[3SG]-SBJV=COM.CL twenty CLF rope=ADD
ipt-i-ci
 twist[3SG.A]-COMPL-3NSG.P
 ‘But the Linkha man, diligently (working and working) made twenty ropes, too.’
 [11_nrr_01.008]

Comitative clauses, if inflected at all, are always in two subjunctive; indicative morphology (tense/aspect marking) is not expressed on them. Yakkha has two sets of subjunctives (cf. Chapter 8.5), both used in various irrealis contexts and in subordinate clauses. The first set (the Nonpast Subjunctive) is marked by the absence of any marking except person; it is also found in independent adhortative and optative clauses. The second set is in most cases identical to the past indicative paradigm, and is hence called Past Subjunctive. It is found in adverbial clauses and in counterfactuals. The difference between the two sets becomes evident also in comitative clause linkage: the temporal reference of the main clause determines which set has to be used. In (32a) with nonpast reference, the Nonpast Subjunctive

applies, while in (32b) with past reference the Past Subjunctive applies (the stem-final /s/ in (32b) surfaces only before vowels).

- (32) a. *ka* *kucuma* *kha=nun*
 1SG[ERG] dog be_satisfied[SBJV;3SG]=COM.CL
 pi-wa-η=ha
 give-NPST[3.P]-1SG.A=NMLZ.NSG
 ‘I will feed the dog sufficiently (in a way that it will be satisfied).’
 b. *ka* *kucuma* *khas-a=nun*
 1SG[ERG] dog be_satisfied[3SG]-SBJV=COM.CL
 pi-η=ha
 give[PST;3.P]-1SG.A=NMLZ.NSG
 ‘I fed the dog sufficiently (in a way that it was satisfied).’

The clause is not only reduced with regard to the tense/mood distinction; sentence-level markers and the main clause nominalization are not possible, either.

Adverbial clauses in =*nun* may also translate into ‘as long as’ (Nepali: *V-in-jhel*). This usage results in a less tight kind of clause linkage, as reflected by its scope properties (see below). Comitative clauses with an ‘as long as’ reading are always inflected for the subjunctive. The nonpast indicative is not possible in (33), even though the proposition in the adverbial clause (i.e. ‘you are in Tumok’) has realis status.

- (33) *tumok=pe* *wa-ci-ga=nun* *cuwa* *un-a-c-u*
 Tumok=LOC live[SBJV]-DU-2=COM.CL beer drink-IMP-DU-3.P
 ‘As long as you live in Tumok, drink millet beer.’

The comitative is also used to derive lexical adverbs. Attached to uninflected stems of (ingressive-)stative verbs, the marker creates adverbs and predicative adjectives, such as *cinun* ‘cold, chilly’, *nunun* ‘well’, *limnun* ‘sweet(ly)’ or *neknun* ‘softly’ in (34). Some fossilized adverbs are found as well: they look like inflected verbs to which the comitative is added, for instance *ηkhumdinun* ‘not tasty’, but corresponding verbs are not available synchronically (see also Chapter 6).

- (34) *khyu* *nek=nun* *leη-me*
 curry_sauce be_soft=COM become[3SG]-NPST
 ‘The curry will become soft.’ [28_cvs_04.054]

The different semantic possibilities of the comitative clause linkage result in different scope and focus options, too. In the manner/circumstance reading, the

negation scope is over the whole complex clause, and the adverbial clause attracts focus, in the same way as the converbal clauses discussed above (see (35a)).

If, however, the clause has the reading ‘as long as’, the negation has scope only over the main clause, and consequently, it cannot reach into the adverbial clause (compare the intended interpretation with the only possible interpretation in (35b)). This shows that one marker can participate in two very different kinds of clause linkage. In this particular case, the inflectional properties of the verb (infinitive vs. inflected for the subjunctive) match nicely with the (overall vs. main clause only) operator scope and focus properties.

- (35) a. *si-ma=nun* *ŋ-uŋ-wa-ŋa-n=ha*
 kill-INF=COM.CL NEG-drink-npst[3.P]-1sg.A=nmlz.nsg
 ‘I will not drink in a way that I get drunk.’
- b. *hiŋ-ŋa=nun* *curuk*
 survive-1sg[SBJV]=COM.CL cigarette
ŋ-uŋ-wa-ŋa-n=na
 NEG-smoke-NPST-1sg.A[3.P]-NEG=NMLZ.SG
 *‘I will not smoke cigarettes for my whole life. (i.e. ‘I will stop in some years.’) only:
 ‘As long as I live, I will not smoke cigarettes.’¹³

The illocutionary operators are assumed to show the same divide with regard to the two different readings of adverbial clauses in *=nun*. Compare example (33) above with the deontic clause (36). Unfortunately, the current data set does not contain examples of imperatives or questions containing adverbial clauses in *=nun* to back up this assumption, since this clause linkage type is comparatively rare in the corpus.

- (36) *si-ma=nun* *mẽ-uŋ-ma*
 kill-INF=COM.CL NEG-drink-INF[DEONT]
 ‘One should not drink in a way that one gets drunk.’

14.8 Conditional clauses in *bhoŋ*

Conditional clauses spell out circumstances that have to apply for the proposition in the main clause to obtain. The conjunction *bhoŋ* (carrying its own stress) may link finite clauses or infinitival conditional clauses to a main clause. It is also

¹³The main reading of the verb *uŋma* is ‘drink’, but it can also refer to consuming other substances, as for instance smoking cigarettes or water-pipes (*hukka*).

employed in complementary clauses (see Chapter 15.2) and in purpose clauses (see §14.9 below). The dependent clauses it marks are larger than converbial clauses, and also larger than the *=nuŋ*-clauses discussed above: conditional clauses contain inflected verbs in subjunctive or indicative mood, and in contrast to the comitative clause linkage the verbs may even carry the nominalizing clitics *=na* and *=ha*.

Conditional clauses can be divided into those containing realis conditions, those containing irrealis conditions and those containing general or habitual conditions. This is also reflected in their distinct formal properties: realis conditions can show indicative morphology (tense/aspect markers, see (37)), with the nonpast indicative if the condition holds at the time of speaking. Irrealis conditions (both hypothetical and counterfactual) are always marked for the past subjunctive (see (38)). Generic and habitual conditional clauses, i.e. those without specified referents, may be in the infinitive (see (38c)). Most of the examples in the corpus are in the Past Subjunctive, i.e. irrealis conditionals are more frequent in discourse than realis conditionals (cf. Genetti (2007: 463) for the same observation in Newari). Conditional clauses may also have a temporal reading in Yakkha.

- (37) a. *Kamala=ŋa mi tupt-wa=na bhon tupt-u-ni*
 Kamala=ERG fire light-NPST[3.P]=NMLZ.SG COND burn-3.P-OPT
 ‘If Kamala lights the fire, may she do it (I do not care).’
- b. *batti n-da-me-n=na. wa-ni ha?lo!*
 electricity NEG-come[3SG]-NPST-NEG=NMLZ.SG exist[SBJV]-OPT EXCLA
n-da-me-n=na bhon, n-da-nin-ni
 NEG-come[3SG]-NPST-NEG=NMLZ.SG COND NEG-come[3SG]-NEG-OPT
ha?lo!
 EXCLA
 ‘The electricity does not come. It’s alright! If it does not come, may it not come, then!’
- c. *a-cya lambu=be pham-di-me?=na bhon,*
 1SG.POSS-child way=LOC entangle-V2.GIVE-NPST=NMLZ.SG COND
 ‘When my child gets confused on the road, ...’ (speaker expecting it to happen; it comes true later in the story) [01_leg_07.072]
- (38) a. *kamala=ŋa mi tupt-u bhon hand-wa=na*
 Kamala=ERG fire light-3.P[SBJV] COND burn-NPST[3.P]
 ‘If Kamala lights the fire, it will burn.’
- b. *ka mas-a-bhy-a-ŋ bhon,*
 1SG get_lost-SBJV-V2.GIVE-SBJV-1SG COND
 ‘In case I get lost, ...’¹⁴ [18_nrr_03.016]

¹⁴The speaker is not expecting it to happen; it does not come true.

- c. *chep-ma bhoj m-mu?-ni-me-n=ha.*
 write-INF COND NEG-forget-COMPL[3SG]-NPST=NMLZ.NSG
men-chep-ma bhoj mu?-ni-me=ha
 NEG-write-INF COND forget-COMPL[3SG]-NPST=NMLZ.NSG
 ‘If one writes it down, one will not forget it. If one does not write it down, one will forget it.’¹⁵

Since conditional clauses contain inflected verbs, they may have their own value for polarity (39a). Negative polarity on the main verb can either have scope over the main clause only (see (39a)) or over the whole sentence (see (39b), here with the conditional clause attracting the focus of the negation).

- (39) a. *paŋ=be ta-me?-ma n-yas-u-ga-n bhoj,*
 house=LOC arrive-CAUS-INF NEG-be_able-3.P-2.A-NEG[SBJV] COND
aniŋ=ga=ca n-leŋ-me-n, ŋ=ga=ca
 1PL.EXCL=GEN=ADD NEG-be-NPST[3SG]-NEG 2SG.POSS=GEN=ADD
n-leŋ-me-n
 NEG-be-NPST[3SG]-NEG
 ‘If you cannot bring it home, it will neither be ours nor yours.’
 [37_nrr_07.015]
- b. *a-ho?ma=ci ŋ-gy-a bhoj sidhak*
 1SG.POSS-cough=NSG 3PL-come_up-SBJV COND medicine
n-ja-wa-ŋa-n=ha
 NEG-eat-NPST-1SG-NEG=NMLZ.NSG
 ‘I don’t take medicine when I have a cough (but when I have a cold).’

Illocutionary force operators generally have scope over the whole sentence, with the conditional clause specifying the question, assertion or command contained in the main clause.

- (40) a. *wandik=ŋa njiŋ-phaŋ phalumba ta-ya*
 tomorrow=INS 2DU.POSS-FyB fourth_born_male come[3SG]-SBJV
bhoj i lum-me-c-u-ga=na?
 COND what tell-NPST-DU-3.P-2=NMLZ.SG
 ‘If your uncle Phalumba comes tomorrow, what will you tell him?’
 [40_leg_08.028]
- b. *ucun n-leks-a-n bhoj pheri chept-u-so*
 nice NEG-become-SBJV-NEG COND again write-3.P-V2.SEE[IMP]
 ‘If it does not turn out nice, try and write again.’

¹⁵This clause could also read as ‘if we write it down, ...’, as detransitivized clauses may also refer to first person nonsingular agents, see Chapter 11.3.1.

Since conditionals provide a background against which the main clause unfolds, it is not surprising that the particle =*ko* that marks topical constituents is often found on conditional clauses (41).

- (41) *n-da-ci* *bhoŋ=go* *im-m=ha=ci* *lai*,
 3PL.A-bring-3NSG.P COND=TOP buy-INF[DEONT]=NMLZ.NSG=NSG EXCLA
ca-m=ha=ci!
 eat-INF[DEONT]=NMLZ.NSG=NSG
 ‘If they bring them (fish), we have to buy some, we have to eat them!’
 [13_cvs_02.077]

The inherent topicality of conditionals notwithstanding, many conditional clauses may host focus markers as well, both restrictive =*se* (expressing that this is the only condition under which the main clause obtains) or additive =*ca* (expressing that the condition is added to all conceivable conditions). Examples can be found in (42). Additive focus on conditional clauses may yield a concessive reading, but the standard way of expressing a concessive is by a combination of the sequential marker =*hoŋ* and additive focus particle =*ca* (see §14.11 below).

- (42) a. *ŋ-khot-a-n* *bhoŋ=se* *kaniŋ* *mimik*
 NEG-be_enough[3SG]-SBJV-NEG COND=RESTR 1PL a_little
in-u-ca-wa-m-ŋ=ha
 buy-3.P-V2.EAT-NPST-1PL-EXCL=NMLZ.NSG
 ‘Only if it is not enough, we buy some.’ [28_cvs_04.038]
- b. *ka* *m-ma-ya-ŋa-n* *bhoŋ=ca* *sondu=ŋa* *nda*
 1SG NEG-exist-SBJV-1SG-NEG COND=ADD Sondu=ERG 2SG
sukha=ŋa *hiŋ-me-ka=na*
 happiness=INS survive-NPST-2=NMLZ.SG
 ‘Even if I am no more, Sondu, you will survive easily.’ [01_leg_07.193]
- c. *aspatal=be* *khe?-ma* *bhoŋ=ca,* *he?ne*
 hospital=LOC carry_off-INF[DEONT] COND=ADD where
khe?-ma=na?
 carry_off-INF[DEONT]=NMLZ.SG
 ‘Even if we have to take him to a hospital, where to take him?’ (i.e. there is no hospital) [36_cvs_06.175]
- d. *wandik* *nniŋ-cya=ci,* *janma* *n-jog-a* *bhoŋ=ca*
 tomorrow 2PL.POSS-child=NSG birth 3PL-do-SBJV COND=ADD
aphno-aphno *paisa=ŋa* *hiŋ-m=ha=ci*
 own-own money=INS raise-INF=NMLZ.NSG=NSG
 ‘Later, when your children are born, too, you have to raise them with your own money.’ [28_cvs_04.141]

Example (42c) is an example of a ‘speech-act conditional’ (Thompson et al. 2007: 267). Speech-act conditionals do not primarily relate to the content of the main clause, but to the fact that the act of communication as such is taking place, as e.g. in ‘In case you did not know, she got married’. Thus, by definition, in speech-act conditionals the illocutionary force has scope only over the main clause. Another example is shown in (43).

- (43) *jeppa cok-ma bhoŋ i=ha=ca im-ma por-a*
 true do-INF COND what=NMLZ.NSG=ADD buy-INF have_to-NATIV
n-jon-me-ŋa-n
 NEG-do-NPST-1SG-NEG
 ‘To be honest, I do not have to buy anything.’
 (lit.: ‘If one does true, I do not have to buy anything.’) (28_cvs_04.187)

It is generally possible for constituents inside adverbial clauses to be focussed. It is my impression that emphatic markers and constituent focus (e.g. by *=se*, *=maŋ* and *=ca*, see Chapter 17), such as in (44), is more often found in the group of inflected adverbial clauses, such as conditional clauses and sequential clauses, than in converbal clauses.

- (44) a. *a-ho?ma=ci=se ŋ-gy-a bhoŋ sidhak*
 1SG.POSS-cough=NSG=RESTR 3PL-come_up COND medicine
n-j-wa-ŋa-n=ha.
 NEG-eat-NPST[3.P]-1SG.A-NEG=NMLZ.NSG
 ‘When I am just coughing, I do not take medicine.’
- b. *eko=se ŋ-ab-u bhoŋ, yapmi*
 one=RESTR 3PL.A-shoot-3.P[SBJV] COND person
sy-a-ma=na mi?-ma=na.
 die-PST-PRF=NMLZ.SG think-INF[DEONT]=NMLZ.SG
 ‘If they fire just once, one has to consider that someone has died.’
 [29_cvs_05.044]
- c. *nna, nani, nna luŋkhwak=maŋ khet-wa-ga=na*
 that girl that stone=EMPH carry_off-NPST-2=NMLZ.SG
bhoŋ, se?ni=ŋa na?masek lam-ma.
 COND night=INS night_time walk=INF[DEONT]
 ‘This stone, child, if you take away this very stone, you have to walk at night.’
 [37_nrr_07.012]
- d. *ŋkhiŋ=ca n-leks-a-n bhoŋ,*
 that_much=ADD NEG-become[3]-SBJV-NEG COND
 ‘If that much is not possible either, ...’
 [37_nrr_07.094]

14.9 Purpose clauses in *bhoŋ*

In addition to conditional finite relations, clauses marked by *bhoŋ* may also express purposes, intentions, cognitive reasons and goals, or states of mind in general (see Bickel 1993 for a similar observation in Belhare). Purpose clauses frequently have optative finite forms, as if they were a direct quote from the subject of the main clause (see (45a) and (45b)). Example (45c), however, shows that the purpose clause can also take the perspective of the speaker. Purpose clauses may also be marked for indicative mood (see (46a)), or have deontic finite forms (see (46b)).

The formal similarity between purposive and speech or thought representation structures (see Chapter 15.2.2) can be explained by the etymological origin of the marker *bhoŋ*. It is assumed that, as in Belhare (Bickel 1993), it developed from a combination of the quotative/hearsay marker *=pu* and the sequential marker *hoŋ*.¹⁶ Since the hearsay marker *=pu* is a clitic and gets voiced after vowels, this also explains why *bhoŋ* has a voiced initial despite being an independent word with regard to stress.

- (45) a. *nam phen-ni bhoŋ, nam=bhaŋ*
 sun shine[3SG;SBJV]-OPT PURP sun=ABL
leŋ-ma=na; wasik ta-ni bhoŋ
 turn-INF[DEONT]=NMLZ.SG rain come[3SG;SBJV]-OPT PURP
wasik=phaŋ luŋkhwak leŋ-ma=na.
 rain=ABL stone turn-INF[DEONT]=NMLZ.SG
 ‘In order for the sun to shine, it (the stone) has to be turned away from the sun. In order for the rain to come, the stone has to be turned away from the rain.’ [37_nrr_07.116-7]
- b. *yaks-u-ni bhoŋ lept-u-ris-u-ŋ=na*
 strike-3.P-OPT COND throw-3.P-V2.PLACE-3.P[PST]-1SG.A=NMLZ.SG
 ‘I threw it at him, so that it would hit him.’
- c. *ap-ŋa-ni bhoŋ ka-ya-ŋ=na*
 come-1SG-OPT PURP call-PST-1SG=NMLZ.SG
 ‘He called me, so that I would come.’

Purpose clauses have the same internal structure as complement clauses, but they function differently in that they adverbially modify the main clause, and hence are optional, whereas complement clauses function as obligatory arguments, without

¹⁶Bickel (1993) mentions the contracted form [muŋ] in Belhare, combined of the quotative marker *mu* (an allomorph of *-bu ~ -phu*, which is cognate with Yakkha *=pu*), and the ablative/sequential marker *huŋ* (cognate to Yakkha *=hoŋ*).

which the main clause would be incomplete. In (46a), the purpose clause contains quoted speech, which is evident from the use of variables such as the speech-act participant pronoun *nniṇda* and the deictic adverb *nhe*. The conjunction *bhoṇ* in (46a) is ambiguous between a purpose marker and a quotative marker. Parallel structures with a purely quotative function of *bhoṇ* can also be found (see (46b), translated with *are* in Nepali).

- (46) a. *nniṇda* *nhe* *wa-ma*
 2PL[ERG] here live-INF
n-dokt-wa-m-ga-n=ha *bhoṇ*
 NEG-get_to_do-NPST-2PL.A[3.P]-2-NEG=NMLZ.NSG PURP
ikt-haks-a-ma-c-u-ci
 chase-V2.SEND-PST-PRF-DU-3.P-3NSG.P
 ‘You will not get the chance to live here!, (they [dual] said) and chased them away.’ OR
 ‘They chased them away, so that they would not get the opportunity to live there.’ [22_nrr_05.012-3]
- b. *haku* *miyaṇ* *ṇkha* *yabenpekhuwa=ci=le*
 now a_little those healer=NSG=CTR
soʔ-meʔ-ma=ci=em *bhoṇ* *yabenpekhuwa=ci=ja*
 look-CAUS-INF[DEONT]=NSG=ALT QUOT healer=NSG=ADD
n-soʔ-met-uks-u-ci
 3PL.A-look-CAUS-PRF-3.P-3NSG.P
 ‘Now we better show the matter to those healers; (they said) and they also showed it to the healers.’ [22_nrr_05.072]

Finally, clauses marked by *bhoṇ* are also found with main verbs such as *soʔma* ‘look’, *kuma* ‘wait’ and *yokma* ‘search’, illustrated in (47). The activity in the main clause is done not in order to achieve whatever is expressed in the purpose clause, but with the goal to acquire knowledge or to achieve a state of mind about the proposition in the purpose clause. These clauses always contain indirect speech or questions (see also (45c) for another example of indirect speech). The perspective is anchored in the speaker and the speech situation, not in the subject of the clause. In (47a), if the perspective of the subject had been taken, the verb *tayamacuha* should have been *tayamacugha* ‘how much have you brought’.

- (47) a. *paṇ=be* *a-ma=ṇa* *ikhiṇ*
 house=LOC 1SG.POSS-mother=ERG how_much
ta-ya-ma-c-u=ha *bhoṇ* *khesup* *so=niṇa*
 bring-PST-PRF-DU-3.P=NMLZ.NC PURP bag look-[3.P;PST]=CTMP

- ‘At home, when mother looked into the bag to see how much we had brought, ...’ [40_leg_08.025]
- b. *m-ba=ŋa nasa ta-wa-ci=ha bhoŋ*
 2SG.POSS-father=ERG fish bring-NPST-3NSG.P=NMLZ.NSG PURP
ku-ma=ŋa ku-ma=ŋa!
 wait-INF[DEONT]=ERG.CL wait-INF[DEONT]=ERG.CL
 ‘Because I have to wait and wait for your father to bring the fish!’
 [01_leg_07.205]
- c. *kucuma he?ne wai?=na bhoŋ*
 dog where exist[NPST;3SG]=NMLZ.SG PURP
yok-ma-si-me-ŋ=na
 search-INF-AUX.PROG-NPST-1SG=NMLZ.SG
 ‘I am looking for the dog (where the dog is).’
- d. *jal hetne het-u=na bhoŋ hoŋma=ga*
 net where get_stuck-3.P=NMLZ.SG REP/PURP river=GEN
u-lap-ulap lukt-a-ma
 3SG.POSS-wing3SG.POSS-wing run[3SG]-PST-PRF
 ‘He ran along the river bank (in order to see) where the net got stuck.’
 [01_leg_07.216]

14.10 Sequential clause linkage and narrative clause-chaining in =*hoŋ*

The sequential marker =*hoŋ* indicates that the dependent clause event and the main clause event take place in a temporal sequence. This clause linkage marker is attached to the inflected verb (without =*na* or =*ha*) or to an infinitival form (see e.g. example (51a)). Sequential clauses can be in the indicative or in the subjunctive. There is no constraint on the coreference of arguments, but the S/A arguments are shared in 60.8% of the occurrences in the corpus (see (48)). Center-embedding is attested only marginally (2.0% of 307 sequential clauses), shown in (49a) and (b). Center-embedding can be attested semantically or via the case marking of the arguments. In (49a), the dual pronoun belongs to the last two verbs, while the sequential clause with *tupma* ‘meet’ has plural reference. In (49b), the subject is in the unmarked nominative that can only come from the intransitive main verb, and hence, the transitive sequential clause must be center-embedded. Since overt arguments are rare, one cannot always assess the variable of center-embeddedness in the data. As (48b) and (49b) have already shown, the sequential may also entail a consecutive reading; (49c) is another example illustrating this.

- (48) a. *nam lom-me=hoŋ photo khic-a*
 sun come_out-NPST[3SG]=SEQ photo press-NATIV
cog-u-m.
 do-3.P-1PL.A[SBJV]
 ‘Let us take photos when the sun comes out.’
- b. *nam=ŋa heco=hoŋ, liŋkha sarap pi=na.*
 sun=ERG win[PST;3.P]=SEQ Linkha spell give[PST;3.P]=NMLZ.SG
 ‘As the sun had won, it put a spell on the Linkha man.’ [11_nrr_01.020]
- c. *nna tiʔwa=go majhya paghyam=ŋa*
 that pheasant=TOP a_title old_man=ERG
napt-het-a-ŋ=hoŋ koben-koben
 snatch-V2.CARRY.OFF-PST-1SG.P=SEQ continuously-REDUP
lam-a-khy-a, ...
 walk[3SG]-PST-V2.GO-PST
 ‘That old Majhya snatched the pheasant from me and left quickly, ...’
 [40_leg_08.037]
- d. *mela=be [...] suku=ŋa u-ppa u-ma=ci=ca*
 fair=LOC [...] Suku=ERG 3SG.POSS-father 3SG.POSS-mother=NSG=ADD
mund-y-uks-u-ci=hoŋ phaps-a-khy-a-ma.
 forget-COMPL-PRF-3.P-3NSG.P=SEQ entangle[3SG]-PST-V2.PST-PST-PRF
 ‘In the fun fair [...], Suku forgot her parents and got lost.’
 [01_leg_07.152]
- (49) a. *kanciŋ to tub-i=hoŋ uks-a-ŋ-ci-ŋ=hoŋ*
 1DU up meet-1PL[PST]=SEQ come_down-PST-EXCL-DU-EXCL=SEQ
yo tas-a-ŋ-c-u-ŋ=ba.
 over_there arrive-PST-EXCL-DU-3.P-EXCL=EMPH
 ‘After we (plural) had met, we (dual) went down and then we (dual) arrived over there.’ [36_cvs_06.395]
- b. *paghyam=ca piccha nis-uks-u=hoŋ*
 old_man=ADD child see-PRF-3.P=SEQ
cond-a-sy-a-ma.
 be_happy[3SG]-PST-MDDL-PST-PRF
 ‘The old man was happy, too, when he saw the child.’ [01_leg_07.296]
- c. *chippakekek nis-u-ŋ=hoŋ yamyam*
 disgusting see-3.P[PST]-1SG.A=SEQ [eating]hesitantly
ca-ŋ=ha
 eat[PST]-1SG.A=NMLZ.NC
 ‘It smelled awfully, and so I ate hesitantly.’

Deriving from its sequential semantics, a secondary function can be observed as well: clauses marked by *=hoŋ* can also express chains of coordinated events in narratives, a function comparable to the ‘narrative converb’ (Nedjalkov 1995). Some examples are shown in (50). The clause-initial conjunction *nhaŋ(a)* has a very similar function, and is historically derived from a demonstrative and the sequential marker. As (50b) shows, *=hoŋ* is not restricted to verbal hosts. It may attach to adverbs, nouns and demonstratives in non-verbal clauses (i.e. to predicates of copular clauses).¹⁷

- (50) a. *nhaŋ* *ŋ-und-wa-ci=hoŋ* *pheri* *haiko=na=be*
 and_then 3PL.A-pull-NPST-3NSG.P=SEQ again other=NMLZ.SG=LOC
ŋ-khe-me=ha=ci.
 3PL-go-NPST=NMLZ.NSG=NSG
 ‘They go a bit further and then they pull them (the fish) out.’
 [13_cvs_02.13]
- b. *nhaŋ* *hattabatta* *lukt-ab-a=hoŋ* *muccok=hoŋ*
 and_then hastily run-V2.COME-PST[3SG]=SEQ lifting_lightly=SEQ
paŋ=be ta-ya, nhaŋa paŋ=be=hoŋ pheri
 house=LOC come-PST[3SG], and_then house=LOC=SEQ again
lukt-ab-a=hoŋ sidhak
 run-V2.COME-PST[3SG]=SEQ medicine
end-a-bhy-a-ŋ=ba.
 apply-PST-V2.GIVE-PST-1SG.P=EMPH
 ‘Then, he came running quickly, he lifted me up, and came to the house, and then, as (we were) in the house, he came running again and applied medicine (on my wounds).’
 [13_cvs_02.053-54]
- c. *ka=ca om mit-a-ŋ=hoŋ n-sy-a=ha*
 1SG=ADD yes think-PST-1SG=SEQ 3PL-die-PST=NMLZ.NSG
wa=ci solok ta-ŋ-ci-ŋ
 chicken=NSG immediately bring[PST]-1SG.A-3NSG.P-1SG.A
 ‘I agreed and quickly brought the dead chicken.’
 [40_leg_08.072]

The scope of negation is less restricted than in the converbal clauses. It may span the whole sentence, or be restricted to the main clause. The first possibility is shown in (51a), with the focus of the negation attracted by the sequential clause. Pure main clause scope can be found in sentences like (51b).

¹⁷The marker can, however, not function as a nominal coordinator. Nouns are coordinated by the comitative marker *=nuŋ*.

- (51) a. *cama ca-ma=hoŋ sidhak men-ja-ma, ondaŋ=se*
 food eat-INF=SEQ medicine NEG-eatINF[DEONT] before=RESTR
ca-ma
 eat-INF[DEONT]
 ‘You don’t have to take this medicine after eating, but before.’
- b. *hi?wa u-yin ind-wa=ci=hoŋ na u-yin=go*
 air 3SG.POSS-egg lay-NPST=3NSGP=SEQ this 3SG.POSS-egg=TOP
m-beŋ-me-n
 NEG-break-NPST[3SG]-NEG
 ‘After he has laid his eggs in the air, this egg does not break.’
 [21_nrr_04.040]

As for the scope of illocutionary operators, all configurations are possible, and some sentences are ambiguous, for instance in (52a). In addition, coordinative scope can be found, with the illocutionary force applying to each subclause separately (see the second reading of (52a), and (52b)).¹⁸ Note that for the coordinative reading in imperatives the verb of the clause marked with =hoŋ has to be in subjunctive mood. The imperative *lab-u=hoŋ* is not possible in (52b)).

- (52) a. *kamniwak sori yuŋ-i=hoŋ uŋ-u-m*
 friend together sit-1PL=SEQ drink-3.P-1pl.A[subjv]
 ‘(We) friends having sat down together, let us drink.’ OR
 ‘Let us friends sit down together and drink!’
- b. *nda cattu=nun lab-u-g=hoŋ tokha?la ky-a!*
 2SG firmly grab-3.P-2SG.A[SBJV]=SEQ upwards come_up-IMP
 ‘Grab it firmly and come up!’ [01_leg_07.329]

An example of main clause scope is given in (53a). Here, the first part of the sentence is uttered as a statement in surprise and it, thus, does not fall under the scope of the question in the main clause. In (53b), on the other hand, the question word is part of the sequential clause, and the main clause is presupposed, as the question is not about whether the addressee survived, but how he was able to hold such a thin rope.

- (53) a. *sondu kha?la=na cuŋ=be tek me-wa?-le jal*
 Sondu like_this=NMLZ cold=LOC clothes NEG-wear-CVB net
kapt-uks-u-g=hoŋ hetnaŋ ta-e-ka=na?
 carry-PRF-3.P-2.A=SEQ where_from come-NPST-2=NMLZ.SG

¹⁸Coordinative scope has proven to be difficult to distinguish from overall scope in most cases, and was thus disregarded for the classification of clause linkage types here.

- ‘Sondū, without clothes in this cold and carrying this net – where do you come from?’ [01_leg_07.232]
- b. *khaʔla=na mi=na khibak=ŋa imin tapt-a-g=hoŋ*
 like_this=NMLZS.G small=NMLZ.SG rope=ERG how hold-PST-2=SEQ
hiŋ-a-ga=na?
 survive-PST-2=NMLZ.SG
 ‘How did you survive, holding such a thin rope?’ (literally: ‘You survived, holding such a thin rope HOW?’)
 [01_leg_07.343]

The sequential clause may also get focussed as a whole, for instance by the restrictive focus particle, shown in example (54) from a conversation.

- (54) a. *heʔniŋ lam-me-ci-g=ha?*
 when walk-NPST-DU-2=NMLZ.NSG
 ‘When will you (dual) set off?’
- b. *cama ca-i-wa-ŋ=hoŋ=se*
 rice eat-1PL-NPST-EXCL=SEQ=RESTR
lam-me-ŋ-ci-ŋ=ha
 walk-NPST-EXCL-DU-EXCL=NMLZ.NSG
 ‘We (dual) will set off only after we (all) had our meal.’

The coordinative reading of =*hoŋ* is also employed in a narrative strategy to build up continuity, known as ‘tail-head linkage’ (Ebert 2003b: 39). The previous clause, or just the verb, is repeated in a sequential clause, before adding new information in the main clause, as illustrated in (55).

- (55) *ŋkhoŋ=ca a-chik ekt-a=na belak=ŋa*
 afterwards=ADD 1SG.POSS-anger make_break-PST=NMLZ.SG time=INS
esap-esap thaŋ-ma yas-a-ŋ. to
 swiftly-swiftly climb-INF be_able-PST-1SG up
thaŋ-a-by-a-ŋ=hoŋ khaʔla so-ŋ=niŋa=go eko
 climb-PST-V2.GIVE-PST-1SG=SEQ like_this look[PST]-1SG.A=CTMP=TOP one
maŋpha=na hoŋ nis-u-ŋ.
 huge=NMLZ.SG hole see[PST]-3.P-1SG.A
 ‘Nevertheless, as I was so angry, that I managed to climb up. When I had climbed up into the tree and looked, I saw a large hole.’ [42_leg_10.022-3]

14.11 Concessive clauses in =hoŋca

It is a crosslinguistically common pattern for concessive clauses to be constructed by means of an additive focus marker or a scalar operator (König 1993: 980). Yakkha employs this strategy, too, combining the sequential clause linkage marker =hoŋ (see above) with the additive focus marker =ca (see Chapter 17.2.2), as shown in (56).¹⁹ Concessive adverbial clauses indicate that the condition expressed in the adverbial clause is in contrast to the expected conditions, or that the condition is not relevant for the assertion to be true. As in (56a) the concessive is employed together with another converb (-saŋ), this shows that =hoŋ does not have sequential semantics any more in concessive clauses.

- (56) a. *ropa lamdhaŋ=be cayoŋwa lin-ca-saŋ=hoŋ=ca*
 paddy_field field=LOC food plant-V2.EAT-SIM=SEQ=ADD
cama=ŋa khot-u-co-nes-uks-u-ci
 food=ERG be_enough-3.P-V2.EAT-V2.LAY-PRF-3.P-3NSG.P
 ‘Even though they ate what they planted in the field, the food was enough for them.’ [01_leg_07.063]
- b. *marej end-a=hoŋ=ca khumdu sa*
 pepper insert[3SG]-PST=SEQ=ADD tasty COP.PST[3]
 ‘Even though pepper was added, it was tasty.’
- c. *yok-ma=bu, cek-ma=i men-ni-ma=hoŋ=ca*
 search-INF[DEONT]=HSY speak-INF=EMPH NEG-know-INF=SEQ=ADD
ceŋ-so?-ma=bu
 speak-V2.LOOK-INF[DEONT]=HSY
 ‘One has to search for it (the language). Even though one does not know it, one has to try and speak, she said.’ [07_sng_01.11]

In §14.8, speech-act conditionals have been introduced (Thompson et al. 2007). The same phenomenon is also found with concessive clauses. In (57), the speaker excuses himself for talking about sensitive topics despite the fact that women are present.

- (57) *nhe, mamu wanne=hoŋ=ca, baru kha?la*
 here girl exist[3;NPST]=SEQ=ADD instead like_this
cok-ma=na, nna, lakhe
 co-INF[DEONT]=NMLZ.SG that castrated
coŋ-si?-ma=na.
 do-V2.PREVENT-INF[DEONT]=NMLZ.SG

¹⁹Occasionally, the cotemporal clause linkage marker *niŋ* is found in concessive clauses, too.

‘Here - even though women are present - instead, one should do it like this,
one should castrate them.’ [28_cvs_04.228]

Related to concessive clauses are ‘exhaustive’ clauses. They contain a question word functioning as a pro-form that may stand for the greatest conceivable temporal extension in (58a) and for any conceivable location in (58b). Such clauses can either be marked just by the additive focus marker, or by the concessive =*hoŋca*.

- (58) *ikhiŋ kus-u=ca mima n-lond-a-ma-n*
 how_much wait-3.P=ADD mouse NEG-come_out-PST-PRF-NEG
 ‘However much it waited, the mouse did not come out.’ [04_leg_03.008]
- (58) *he?ne khe-i-ga=hoŋ=ca [...] ka=ca hakt-a-ŋ au.*
 where go-2PL-2=SEQ=ADD [...] 1SG=ADD send-IMP-1SG.P INSIST
 ‘Wherever you go, (...) send (a message) to me too.’ [01_leg_07.276]

14.12 Cotemporal linkage in =*niŋ(a)*

The marker =*niŋ* ~ =*niŋa* combines clauses that refer to events that happen at the same time, but that do not necessarily have coreferential S or A arguments. The two forms occur in free variation; no phonological or functional motivation for the alternation could be found. The event in the main clause generally unfolds against the background provided by the adverbial clause, as e.g. in (59). Given its semantics, it is not surprising that the marker may host the topic particle =*go* (see (59b)). The adverbial clause can be inflected for either one of the subjunctives (see Chapter 8.5), but also for different tenses in the indicative mood. Generic statements are in the infinitive, as in (59a).

As in the sequential construction, the S and A arguments do not have to be coreferential (see (59)), but in 37% of the clauses they are. Center-embedding is as rare as in the sequential clause linkage pattern, but it is generally possible.

- (59) a. *uthamlan uimalan lam-ma=niŋa lan=ci*
 steeply_uphill steeply_downhill walk-INF=CTMP leg=NSG
n-sa-ma=ha=ci
 3PL-become.PST-PRF=NMLZ.NSG=NSG
 ‘While walking steeply uphill and downhill, the legs got stronger.’
- b. *thawa=bhan to ŋ-khy-ama=niŋ=go mamu nnhe=man*
 ladder=ABL up 3PL-go-PRF=CTMP=TOP girl there=EMPH
wet=na=bu
 exist[3SG]=HSY

‘As they have gone up on the ladder, the girl is right there!’

[22_nrr_05.111]

The scope properties are similar to those of the sequential clauses. With regard to negation, overall and main clause scope are possible. Overall scope is shown in (60a), and main clause scope in (60b), which acquires a causal reading in addition to the basic cotemporal one.

- (60) a. *ta-ya-ŋ-ci-ŋ=niŋ* *cama*
 come-PST-EXCL-DU-EXCL=CTMP food
n-ni-n=ha
 NEG-cook[PST;3.P]-NEG=NMLZ.NSG
 ‘She wasn’t preparing food when we came.’
- b. *pyak=ŋa* *m-phat-uks-u=niŋa,* *Tikule=ŋa* *i=ya=ca*
 many=ERG 3PL.A-help-PRF-3.P=CTMP Tikule=ERG what=NSG=ADD
cokla *cok-ma* *por-a* *n-jog-ama-n*
 work do-INF must-NATIV NEG-do-PRF[3SG]-NEG
 ‘As so many helped him, Tikule did not have to do anything.’
- [01_leg_07.019]

14.13 Counterfactual clauses in =niŋ(go)bi or =hoŋ(go)bi

Counterfactual clauses are marked mostly by =niŋ for cotemporal clauses and occasionally by =hoŋ for sequential clauses. The adverbial clause can be infinitival or inflected for the subjunctive, and is often marked by the topic particle =ko (voiced [go] after in intervocalic and postnasal position, see Chapter 3.5.1). Both the adverbial clause and the main clause furthermore host the irrealis marker =pi ([bi] due to the voicing rule). Clauses as in (61) can only have a counterfactual reading (i.e. it is established knowledge at the time of speaking that the condition does not obtain); they cannot be understood hypothetically. The irrealis marker, however, also occurs in hypothetical statements.

- (61) a. *ka* *nis-u-ŋ=niŋ=bi* *ikhiŋ*
 1SG[ERG] know-3.P[SBJV]-1SG.A=CTMP=IRR how_much
lu-ŋ=bi.
 tell-1SG.A[3.P;SBJV]=IRR
 ‘If I knew it, how much would I tell!’

- b. *diana=ca piʔ-ma=hoŋ=go=bi*
 Diana=ADD give-INF=SEQ=TOP=IRR
cond-a-sy-a=bi=ba!
 be_happy-SBJV-MDDL-SBJV[3SG]=IRR=EMPH
 ‘After giving them to Diana too, she would have been happy!’
 [13_cvs_02.075]
- c. *encho=maŋ jal lep-ma cind-a-ŋ-ga=niŋ=bi*
 long_ago=EMPH net throw-INF teach-PST-1SG.P-2.A=CTMP=IRR
hen tuʔkhi n-ja-ya-ŋa-n loppi.
 today trouble NEG-eat-SBJV-1SG-NEG probably
 ‘If we had gone, I would have sent it to you.’ [01_leg_07.252]
- d. *nniŋ=ga ten a-sap n-thakt-u-n=niŋ=go=bi,*
 2PL=GEN village 1SG.POSS-[STEM] NEG-like-3.P-NEG=CTMP=TOP=IRR
ka n-da-ya-ŋa-n=bi.
 1SG NEG-come-PST-1SG-NEG=IRR
 ‘If I did not like your village, I would not have come here.’

14.14 Interruptive clauses in =lo

The clause linkage marker =lo (glossed ITP) does not figure prominently in the current corpus. It signals that a certain event takes place within the time span of another event, often interrupting it (see (62a)), or having an effect contrary to the one expected (see (62b)). The verb in the adverbial clause often includes the inceptive V2 *-heks* (see Chapter 10), which signifies that the action had just begun and was not completed yet (see (62a) and (62b)). With telic verbs, this implies that the event has not reached its end point yet (62c). The marker is probably cognate with a comitative marker found e.g. in Belhare and Bantawa, which is also employed in clause linkage in Belhare (Bickel 1993, Doornenbal 2009). As the examples are limited for this kind of clause linkage, the description of this clause linkage strategy cannot go into further detail.

- (62) a. *a-ppa, eh, a-ppa! cekt-heks-a=lo swak*
 1SG.POSS-father he 1SG.POSS-father talk-V2.CUT-PST=ITP silent
wa-ya-by-ama
 be-PST-V2.GIVE-PRF[3SG]
 ‘He started calling: Father, hey, father!, when he suddenly fell silent.’
 [01_leg_07.179]
- b. *jal so-heks-u=lo mas-a-by-ama*
 net watch-V2.CUT-3.P=ITP lose-PST-V2.GIVE-PRF[SBJV]
 ‘As he was about to watch the net, it got lost.’ [01_leg_07.217]

- c. *tokha?la khem-me, to khem-me?=lo pheri*
 upwards go-NPST[3SG] up go-NPST[3SG]=ITP again
heko=na=ga u-cya leŋ-me.
 other=NMLZ.SG=GEN 3SG.POSS-child become-NPST[3SG]
 'It flies up, and within the time it flies up, again this other one has a
 child (egg).' [21_nrr_04.046]

15 Complementation

Yakkha has a number of verbs that embed clausal complements. These complement-taking verbs (CTPs, Noonan 2007) license several complement constructions, defined by the type of the embedded clause. The most salient formal distinction can be drawn between infinitival clauses and inflected clauses.¹ A typical infinitival complement construction is shown in (1a). Inflected complement clauses show person, tense/aspect, mood (indicative or subjunctive) inflection and the nominalizing clitics =*na* or =*ha*² (see (1b)). In the case of embedded direct speech, they may show any marking that is found on independent clauses as well, for instance the imperative (see (1c)).

- (1) a. *ka kheʔ-ma mit-a-ŋ-na*
 1SG go-INF think-PST-1SG=NMLZ.SG
 ‘I want to go.’
- b. *nda lam-me-ka=na mi-nuŋ-nen=na*
 2SG return-NPST-2=NMLZ.SG think-PRF-1>2=NMLZ.SG
 ‘I thought that you will come back.’
- c. *haku bagdata=ca py-a-ŋ-ni-ŋ bhoŋ eko*
 now finalization_of_marriage=ADD give-IMP-1SG-PL-1SG COMP one
binti bisa cog-wa-ci
 request request make-NPST-3NSG.P
 ‘“Now give me the *bagdata*, too,” she requests from them.’³
- [26_tra_02.019]

¹I deliberately avoid the terms *finite* and *nonfinite* here, since finiteness is a problematic concept. The defining criteria are different across languages and across theoretical frameworks. In this case, finiteness would only be defined by the presence or absence of the verbal inflection, as inflected complement clauses are less finite than independent clauses. They lack many features such as clause-final marking for evidentiality or mirativity, certain mood inflections like the imperative, and detached positions. The infinitival clauses, on the other hand, are potentially equal to finite clauses in Yakkha: in one infinitival complement construction the main verb is optional (the deontic construction), so that the infinitive can present a full (deontic) predication (see §15.1.7).

²Cf. Chapter 13.3.

³The form *pyaŋniŋ* is more complex than expected from the Tumok data (see Chapter 8.5). The speaker’s natal home is in Hombong village.

Table 15.2 provides an overview of the complement-taking predicates of Yakkha. They are grouped according to the inflectional features of the embedded clauses and according to their semantics. Noonan (2007: 120ff) lists the following semantic classes of complement-taking predicates: utterance predicates, propositional attitude predicates, pretence predicates, comment (factitive) predicates, predicates of knowledge or acquisition of knowledge, predicates of fearing, desiderative predicates, manipulative predicates, modal predicates, achievement predicates, phasal predicates and predicates of perception. In Yakkha, inflected complement clauses occur with utterance predicates, propositional attitude predicates and with predicates of perception. Infinitival complement clauses occur with a broader semantic range of CTPs, as the Table shows.

Most complement-taking verbs may also take nominal arguments, e.g. *tokma*, which can mean ‘get something’ or ‘get to do something’. In addition to the complement-taking verbs, there are also some nouns that can embed clausal complements, such as *ceʔya* ‘talk, matter’ or *kisiʔma* ‘fear’.

Many complement constructions, especially those with infinitival complements, are characterized by the referential identity between an argument of the embedded clause and an argument of the matrix clause. This may be reflected by leaving an argument unexpressed in one clause (Equi-deletion). Traditionally, complement constructions with shared arguments are divided into raising and control constructions.⁴ In control constructions, the shared argument belongs to both clauses semantically, whereas in raising, the shared argument belongs to the embedded clause semantically, despite being coded as argument of the main clause. Hence, in raising constructions an ‘unraised’ alternative expressing the same propositional content is usually available, while in control constructions, there is only one option.

The CTPs taking infinitival complements are discussed in §15.1, the verbs and nouns that take inflected complement clauses are treated in §15.2.

15.1 Infinitival complement clauses

15.1.1 Overview

In this section, I discuss all constructions that follow the basic pattern of an infinitive followed by an inflected verb. I found 20 predicates that occur with embedded infinitives in Yakkha.

⁴Arguments can be shared with respect to morphological marking, agreement, or constituency properties, following Serdobolskaya’s definition of ‘raising’ (Serdobolskaya 2009: 278).

15.1 Infinitival complement clauses

INFINITIVAL COMPLEMENT	INFLECTED COMPLEMENT
PHASAL	
<i>tarokma</i> ‘begin’ <i>lepnima</i> ‘stop, abandon’ <i>tama</i> ‘be time to’ (lit. ‘come’)	
UTTERANCE PREDICATES	
<i>kama</i> ‘say’ <i>lu?ma</i> ‘tell’ <i>chimma</i> ‘ask’ <i>yokme?ma</i> ‘tell (about sth.)’	
PROPOSITIONAL ATTITUDE, DESIDERATIVE, EXPERIENTIAL	
<i>mi?ma</i> ‘like doing, want’ (lit. ‘think’) <i>kaŋma</i> ‘give in, surrender’ (lit. ‘fall’) <i>POSS-niŋsaŋ puŋma</i> ‘have enough, be fed up’ <i>sukma</i> ‘intend, aim’ <i>leŋma</i> ‘be acceptable, be alright’ <i>kisi?ma</i> ‘be afraid’	<i>mi?ma</i> ‘think, hope, remember’ <i>yemma ~ emma</i> ‘agree (to propositions)’ <i>consi?ma</i> ‘be happy about’ <i>kuma</i> ‘wait, expect’ <i>POSS-niŋwa wama</i> ‘hope’ <i>niŋwa hupma</i> ‘decide collectively’
PERCEPTION, COGNITION, KNOWLEDGE	
<i>nima</i> ‘know how to do’ <i>mu?nima</i> ‘forget to do’	<i>nima</i> ‘see/get to know’ <i>mu?nima</i> ‘forget about sth.’ <i>khemma</i> ‘hear’ <i>e?ma</i> ‘have impression that’
MODALS	
<i>yama</i> ‘be able’ (copula/zero) ‘have to’ <i>cokma</i> ‘try’ (lit. ‘do’)	
ACHIEVEMENT	
<i>tokma</i> ‘get to do’ (lit. ‘get’)	
PRETENCE	
<i>lo?wa cokma</i> ‘pretend’	
PERMISSIVE, ASSISTIVE (S-TO-P)	
<i>pi?ma</i> ‘allow’ (lit. ‘give’) <i>pha?ma</i> ‘help doing’ <i>cimma</i> ‘teach’ <i>so?me?ma</i> ‘show’	

Table 15.2: Overview of complement-taking predicates

Infinitival complement clauses are marked by the infinitive *-ma*, to which, optionally, the genitive marker *=ga* may attach (see (2)). Other inflectional categories are not possible on these clauses. Apart from these basic features, the behaviour of the various verbs that embed infinitives is far from homogenous, as will be shown below.

- (2) a. *ka kheʔ-ma(=ga) cog-a-ŋ=na*
 1SG go-INF(=GEN) do-PST-1SG=NMLZ.SG
 ‘I tried to go.’
 b. *kucuma=ŋa ka haʔ-ma(=ga) sukt-a-ŋ=na*
 dog=ERG 1SG bite-INF(=GEN) aim[3SG.A]-PST-1SG.P=NMLZ.SG
 ‘The dog intended to bite me.’

The embedded infinitive depends on the main verb for all inflectional categories. One construction (expressing deontic modality) is exceptional in this respect, however (cf. Section 15.1.7). In this construction, the nonsingular marker *=ci* attaches to the infinitive when the object has third person nonsingular reference. The marker is aligned with the primary object (compare the intransitive example (3a) with transitive (3b) and ditransitive (3c)).

- (3) a. *yapmi paŋ-paŋ=be nak-saŋ kheʔ-m=ha*
 people house-house=LOC ask-SIM go-INF[DEONT]=NMLZ.NSG
 ‘The people have to go from house to house, asking (for food).’ (S)
[14_nrr_02.029]
 b. *thim-m=ha=ci*
 scold-INF[DEONT]=NMLZ.NSG=NSG
 ‘They (the young people) have to be scolded.’ (P)
 c. *wa=ci piʔ-m=ha=ci*
 chicken=NSG give-INF[DEONT]=NMLZ.NSG=NSG
 ‘It has to be given to the chicken.’ (G)

The complement-taking verbs can be distinguished according to their valency and their argument realization. Some matrix verbs always have intransitive morphology, some always have transitive morphology, and some verbs assimilate to the valency of their embedded predicates. Accordingly, the agreement properties have the potential to differ. Yakkha infinitival complement constructions show long distance agreement (LDA), i.e. the matrix verb shows agreement with an argument of the embedded clause. This is illustrated by example (2b) above: the constituent *ka* ‘1sg’ is the P argument of the embedded clause and triggers ob-

ject agreement in the matrix verb *sukma* ‘intend’. LDA is common for Kiranti languages; it has been described e.g. for Belhare (Bickel & Nichols 2001, Bickel 2004a) and for Puma (Schackow 2008). An overview of the infinitival complement types and their properties is provided in Table 15.3 below. In the following sections, these properties will be treated in detail.

The case assignment has to be determined independently from the agreement properties. In the majority of the complement-taking verbs, the case assignment for the embedded arguments comes from the embedded verb. This means that in cases of shared reference it is not necessarily the embedded argument that is omitted, but rather the matrix argument (discussed below). Such structures are known as backward control, and received attention in the literature on control phenomena especially after an article on the Nakh-Dagestanian language Tsez by Polinsky & Potsdam (2002).

Thus, in several infinitival complement constructions the arguments show relations to both clauses simultaneously, so that the whole structure is better analyzed as monoclausal rather than as matrix clause and embedded clause.⁵ This is the case when, for instance, case is assigned by the embedded verb, but agreement is triggered on the main verb.⁶

15.1.2 Predicates with variable valency

Some complement-taking verbs assimilate in valency to the embedded verb. If the embedded verb is intransitive, the matrix verb shows intransitive agreement morphology; if the embedded verb is transitive, the matrix verb shows transitive agreement morphology. The verbs *yama* ‘be able’, *mi?ma* ‘like doing’ and *cokma* ‘try’ belong to this class. The S/A arguments of embedded and matrix verb have to be coreferential. Sentences like ‘I want him to go’ cannot be expressed by this construction. These predicates exhibit backward control. The S/A arguments are case-marked according to the properties of the embedded verb, i.e. nominative with intransitive verbs and ergative with transitive verbs. This indicates that the overtly realized arguments are those of the embedded verb.

The verb *yama* is a modal verb, expressing abilities, as opposed to *tokma*, which expresses the possibility of an event as determined by other circumstances or participants. Example (4a) shows an intransitive complement clause. The respective

⁵See Haspelmath (1999) for a discussion on clause union in the Nakh-Dagestanian language Godoberi.

⁶Yakkha also has a periphrastic imperfective construction that has obviously developed from an infinitival complement construction, see Chapter 8.4.

VERB	MORPH.	ARGU- MENTS	CASE OF OVERT A	AGREEMENT	
	VALENCY			EMB. ARG.	MATR. SLOT
<i>yama</i> ‘be able’	as emb. V	2	by emb. V	[S]	→S
<i>mi?ma</i> ‘want’		2	by emb. V	[A]	→A
<i>cokma</i> ‘try’		2	by emb. V	[P]	→P
<i>ni?saŋ puŋma</i> ‘be fed up’	as emb. V	2	?	[A] [P] [clause]	→A →P →S[3sg]
<i>sukma</i> ‘aim, intend’	trans.	2	by emb. V	[S/A]	→A
<i>tarokma</i> ‘begin’		2	by emb. V	[P]	→P
<i>lepnama</i> ‘stop’		2	by emb. V	[clause]	→P[3sg]
<i>tokma</i> ‘get to do’		2	by emb. V		
<i>mu?nima</i> ‘forget’		2	?		
<i>kaŋma</i> ‘agree, give in’	intrans.	2	?	[S/A/P]	→S
<i>pi?ma</i> ‘allow’	ditrans.	3		[S/A]	→P
<i>pha?ma</i> ‘help doing’		3	by matrix V		
<i>cimma</i> ‘teach’		3			
<i>so?me?ma</i> ‘show’		3			
<i>leŋma</i> ‘be alright’	intrans.	1	by emb. V	[S/A/P] [clause]	→S or →S[3sg]
<i>tama</i> ‘be time to’		1	?	[clause]	→S[3sg]
copula/zero ‘have to’		1	by emb. V	[S/P] [1/2]	→S →S

Table 15.3: Argument realization in infinitival complement constructions

transitive form *nyaswananna* (supposing ‘dummy’ object inflection of third person singular) would be ungrammatical here. Example (4b) and (4c) show transitive complement clauses. Both arguments trigger agreement in the matrix verb, and case is assigned by the embedded verb (see the ergative in (c)). In (4d), a three-argument verb from the double object class is embedded. The person inflection of the matrix verb is analogous to the inflection that is usually found in the embedded verb *so?me?ma* ‘show’, aligned with the primary object.

- (4) a. *ka nda=ma?niŋ hiŋ-ma n-ya-me-ŋa-n=na*
 1SG 2SG=without survive-INF NEG-be_able-NPST-1SG-NEG=NMLZ.SG
 ‘I cannot survive without you.’
- b. *ŋkha (...) them-ma*
 those (...) lift-INF
n-yas-uks-u-n-ci-ni-n
 NEG-be_able-PRF[PST]-3.P-NEG-3NSG.P-3PL.A-NEG
 ‘They could not lift those (stones).’ [37_nrr_07.029]
- c. *na mamu=ŋa luŋkhwak pok-ma*
 this girl=ERG stone wake_up-INF
n-yas-u-n
 NEG-be_able[3SG.A]-3.P[PST]-NEG
 ‘This girl was not able to wake up the stone.’ [37_nrr_07.036]
- d. *ka nda a-den so?me?ma*
 1SG[ERG] 2SG 1SG.POSS-village show-INF
ya-me?nen=na
 be_able-NPST-1>2=NMLZ.SG
 ‘I can show you my village.’

When *yama* is negated, occasionally an alternative infinitive marker *-sa* is found, as in (5). It is only attested with *yama*.

- (5) *kanciŋ i=ca ka-sa y-yas-a-n-ci-ŋa-n*
 1DU what=ADD say-INF NEG-be_able-PST-NEG-DU-EXCL-NEG
 ‘We could not say anything.’ [40_leg_08.027]

Example (6) and (7) illustrate the same properties for the verbs *mi?ma* ‘want’ (lit.: ‘think’) and *cokma* ‘try’ (lit.: ‘do’).

- (6) a. *paŋ=be ap-ma mit-a-ma-ŋ=na*
 house=LOC come-INF like-PST-PRF-1SG=NMLZ.SG
 ‘I want to come home.’ (intransitive) [01_leg_07.096]
- b. *suman=ŋa limlim inca-ma mit-uks-u*
 Suman=ERG sweets buy-INF like[3SG.A]-PRF-3.P[PST]

‘Suman wanted to buy sweets.’ (transitive) [01_leg_07.040]

- (7) a. *siŋ=be thaŋ-ma=ga cog-a-ŋ*
 tree=LOC climb-INF=GEN try-PST-1SG
 ‘I tried to climb the tree.’ (intransitive) [42_leg_10.020]
- b. *ŋkha them-ma n-jog-uks-u-ci*
 those lift-INF 3PL.A-try-PRF-3.P[PST]-3NSG.P
 ‘They tried to lift those (stones).’ (transitive) [37_nrr_07.029]

The agreement pattern with the embedded object may also apply when the agreement triggering arguments and the embedded verb are not overt, as example (8) from a conversation illustrates.

- (8) *khu?-nen? – khatningo n-yas-wa-ŋ-ga-n=na!*
 carry-1>2[SBJV] – but NEG-be_able-NPST-1SG.P-2SG.A-NEG=NMLZ.SG
 A: ‘Shall I carry you?’ B: ‘But you can’t!’

The verb *ninsan punma* ‘have enough, lose interest’, an Experiencer-as-Possessor predicate (cf. Chapter 9.2) may also alternate in valency. In most cases, it is intransitively inflected, invariably with third person singular inflection (9a). With transitive embedded verbs, however, it may optionally mirror the inflection of the embedded verb (9b).

- (9) a. *nda=nun kon-ca-ma a-ninsan*
 2SG=COM walk-V2.EAT-INF 1SG.POSS-[STEM]
pun-a-by-a=na! ikhin
 lose_interest[3SG]-PST-V2.GIVE-PST=NMLZ.SG how_much
ko?-ma=le ha?lo!?
 walk-INF[DEONT]=CTR EXCLA
 ‘I have enough of walking with you! How much do we have to walk?!’
- b. *kha philim=ci (so?-ma) a-ninsan*
 THOSE film=NSG (watch-INF) 1SG.POSS-[STEM]
pun-y-uks-u-ŋ-ci-ŋ=ha
 lose_interest-COMPL-PRF-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
 ‘I have enough of (watching) those films.’

15.1.3 Invariably transitive predicates

Some complement-taking verbs always show transitive person inflection. Both subject and object of transitive embedded verbs are indexed on the matrix verb. When intransitive verbs are embedded, the embedded S argument triggers tran-

sitive subject agreement in the matrix verb, while the object agreement is default third person singular. Verbs belonging to this class are *tokma* ‘get to do’, *tarokma* ‘begin’, *sukma* ‘aim, intend’, *lepnima* ‘stop, abandon’ and *mu?nima* ‘forget’. Except for *tarokma* all verbs may also take nominal complements.

Example (10) illustrates this pattern with the verb *tokma*. It expresses possibilities that are determined by other participants or conditioned by outer circumstances beyond the power and control of the subject (S or A). When three-argument verbs are embedded, the person marking on the matrix verb is analogous to the person marking usually found on the embedded verb (see (10b) from the double object class). The long distance agreement is obligatory, as evidenced by ungrammatical (10c), where the number features of the embedded object and the person inflection of the matrix verb do not match.

- (10) a. *nda nhe uŋ-ma n-dokt-wa-ga-n=na*
 2SG here come_down-INF NEG-get-NPST[3.P]-2SG.A-NEG=NMLZ.SG
 ‘You will not get the chance to come down here (i.e. we will not let you come down here).’ [21_nrr_04.035]
- b. *ka kamniwak=ci sandisa khu?-ma*
 1SG[ERG] friend=NSG present bring-INF
tokt-u-ŋ-ci-ŋ=ha
 get-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
 ‘I got the chance to bring my friends presents.’
- c. **ka muŋ=ci im-ma tokt-u-ŋ*
 1SG[ERG] mushroom=NSG buy-INF get-3.P-1SG.A
 Intended: ‘I got the chance to buy mushrooms.’ (correct: *imma toktuŋ-ciŋ*)

Example (11) illustrates the transitive agreement with the embedded object for the verb *tarokma* ‘begin’. In (11a), the verbal person marking is the only clue about the number of the object argument, as the nonsingular marker on the noun is optional and often omitted, in this case because of the unspecific reference of the argument *yakpuca*. Example (11b) and (11c) serve to show that *tarokma* is not restricted to verbs with intentional agents. Case is assigned by the embedded verb, since the subjects of embedded intransitive verbs are in the nominative and not in the ergative.

- (11) a. *yakpuca yok-ma tarokt-a-ma-c-u-ci*
 porcupine search-INF begin-PST-PRF-DU.A-3.P-3NSG.P
 ‘They (dual) began to look for porcupines.’ [22_nrr_05.014]

- b. *khap khap-ma=niŋa=go chinɗan khoŋ-ma, khap*
 roof cover-INF=CTMP=TOP main_pillar collapse-INF roof
yoŋ-ma tarokt-uks-u
 shake-INF begin[3SG.A]-PRF-3.P[PST]
 ‘While (Tumhang) made the roof, the pillar began to collapse, the roof
 began to shake.’ [27_nrr_06.031]
- c. *nna mamu=ga o-phok tuk-ma*
 that girl=GEN 3SG.POSS-stomach hurt-INF
tarokt-uks-u
 begin[3SG.A]-PRF-3.P[PST]
 ‘That girl’s stomach began to hurt.’ [37_nrr_07.020]

Another member of this class is the complex verb *lepnima*, with phasal semantics: ‘stop, abandon’ (12). The verb consists of two stems: the lexical stem *lept* ‘throw’ and the marker *ni ~ i* contributing completive semantics. This verb indicates the terminal point of an event, whether activities or states (as in (12a)), whether actual or habitual (as (12b) shows). The embedded object triggers object agreement on the matrix verb.

- (12) a. *a-nabhuk hup-ma*
 1SG.POSS-nose be_blocked-INF
n-lept-i?-wa-n=na
 NEG-stop[3SG.A]-COMPL-NPST[3.P]-NEG=NMLZ.SG
 ‘My nose continues to be blocked.’
- b. *ka uŋci cim-ma lept-i-ŋ-ci-ŋ=ha*
 1SG[ERG] 3NSG teach-INF stop-COMPL-C-3NSG.P-1SG.A=NMLZ.NSG
 ‘I stopped teaching them.’

As with *tarokma* above, the semantics of *lepnima* do not imply conscious decisions and actions, as both sentences in (13) show. Given the etymological relation to the lexical verb *lepma* ‘throw’, this is an unexpected finding.

- (13) a. *paŋ yoŋ-ma lept-i-uks-u*
 house shake-INF stop[3SG.A]-COMPL-PRF-3.P[PST]
 ‘The house stopped shaking.’ [27_nrr_06.036]
- b. *luŋɗan lupluŋ=be hom-ma n-lept-i-ci*
 cave den=LOC fit_into-INF 3PL.A-stop-COMPL[PST]-3NSG.P
 ‘They did not fit into caves and dens any more.’ [27_nrr_06.004]

15.1.4 Three-argument constructions

Complement-taking verbs with assistive or permissive semantics such as *pha?ma* ‘help’, *pi?ma* ‘give’ (> ‘allow’), *cimma* ‘teach’ and *so?me?ma* ‘show’ follow a pattern where the G argument of the matrix clause has identical reference to the subject of the embedded clause. In other words, the matrix G argument controls the reference of the embedded S or A argument. The teachee, allowee etc. are arguments of the matrix clause; hence, the agreement is not optional. For instance, a form like *so?metuηna* (1>3) would not be acceptable in (14b). These verbs realize their arguments according to the double object frame, i.e. the nominal G argument triggers object agreement in the verb; and the embedded clause has the role of the T argument (14). An example from natural speech is provided in (14c).

- (14) a. *im-ma pim-me?-nen=na*
 sleep-INF give-NPST-1>2=NMLZ.SG
 ‘I allow you to sleep.’
 b. *kondarik ok-ma so?me?-me?-nen=na*
 spade dig-INF show-NPST-1>2=NMLZ.SG
 ‘I will show you how to plough.’
 c. *na yakkha=ga ce?yamumma ghak heko=ci=ηa*
 this Yakkha=GEN speech all other=NSG=ERG
η-khus-het-u, cek-me?-ma
 3PL.A-steal-V2.CARRY.OFF-3.P[PST] talk-CAUS-INF
m-bi-n-ci-nin=niηa, ...
 3PL.A-give-NEG-3NSG.P-3PL.A=CTMP
 ‘When this language of the Yakkha people was all taken away by the others, when they did not allow them to speak it ...’ [18_nrr_03.006]

All verbs of this class can have either nominal or infinitival complements, as exemplified with *cimma* ‘teach’ in (15).

- (15) a. *kamala=ηa ka yakkha ce?ya*
 K.=ERG 1SG Yakkha language
cind-a-η=na
 teach[3SG.A]-PST-1SG.P=NMLZ.SG
 ‘Kamala taught me the Yakkha language.’
 b. *kei-lak-ma cim-me?-nen=na*
 drum-dance-INF teach-NPST-1>2=NMLZ.SG
 ‘I will teach you to dance the drum dance.’

15.1.5 The intransitively inflected verb *kaŋma* ‘agree, give in’

The verb *kaŋma* ‘agree, be willing to, give in’ (lit.: ‘fall’) always shows intransitive person inflection, regardless of the valency of the embedded verb. Hence, there is only one agreement slot and (at least) two potential candidates to trigger agreement when transitive verbs are embedded. For this verb, the choice of the agreement triggering argument is determined by pragmatics, not by syntax. It shows agreement with whatever argument of the embedded clause is more salient in the current stretch of discourse (16). This is also the case for the subject-complement construction with the matrix verb *leŋma* ‘be alright’ (cf. §15.1.6 below). With certain embedded verbs, agreement with A is pragmatically more common (e.g. with *cama* ‘eat’), while with other verbs agreement with P is more common (e.g. with *came?ma* ‘feed’). Interestingly, A arguments in the ergative case are not allowed with this complement-taking verb, indicating that the matrix S argument controls the embedded arguments.

This pragmatically conditioned behaviour stands in contrast to Chintang and Belhare, where certain complement-taking verbs are restricted to P arguments alone, following a purely syntactic constraint (Bickel & Nichols 2001, Bickel et al. 2010).

- (16) a. *picha im-ma ŋ-gaŋ-me-n=na*
 child sleep-INF NEG-agree[3SG]-NPST-NEG=NMLZ.SG
 ‘The child is not willing to sleep.’ (S)
- b. *lukt-a-khy-a=ŋ, chu?-ma ŋ-gaks-a-n=oŋ*
 run[3SG]-PST-V2.GO-PST=SEQ tie-INF NEG-agree[3SG]-PST-NEG=SEQ
 ‘As it (the cow) ran away, as was not willing to be tied, ...’ (P)
[11_nrr_01.011]
- c. *ka uŋ pha?-ma ŋ-gaks-a-ŋa-n=na*
 1SG 3SG help-INF NEG-agree-PST-1SG-NEG=NMLZ.SG
 ‘I was not willing to help him.’ (A)

15.1.6 Subject complement constructions

Two verbs, namely *tama* ‘be time to’ (lit.: ‘come’) and *leŋma* ‘be alright, be accepted’ (lit.: ‘become’), take the whole proposition as their sole argument, usually showing third person singular person marking, regardless of the referential properties of the embedded arguments, as shown in (17). This type of complement construction is referred to as subject complement construction.

- (17) a. *uŋ mit-a: haku eko paŋ cok-ma*
 3SG think[3SG]-PST: now one house make-INF
ta-ya=na
 come[3SG]-PST=NMLZ.SG
 ‘He thought: Now the time has come to build a house.’ [27_nrr_06.006]
- b. *yun-ma leŋ-meʔ=n=em*
 sit_down-INF be_alright[3SG]-NPST=NMLZ.SG=ALT
n-leŋ-me-n=n=em?
 NEG-be_alright[3SG]-NPST-NEG=NMLZ.SG=ALT
 ‘Is it alright to sit down (or is it not alright)?’
- c. *liŋkha=ci hoŋliŋwa ca-ma*
 a_clan=NSG a_kind_of_fish eat-INF
n-leŋ-me-n=na
 NEG-be_alright[3SG]-NPST-NEG=NMLZ.SG
 ‘The Linkhas are not allowed to eat the Honglingwa fish.’

It is also possible that one embedded argument gets raised and triggers agreement on the matrix verb (compare (18a) and (18b)).

- (18) a. *n-dokhumak im-ma n-leŋ-me-n=na*
 2SG.POSS-alone sleep-INF NEG-be_alright[3SG]-NPST-NEG=NMLZ.SG
- b. *n-dokhumak im-ma n-leŋ-me-ka-n=na*
 2SG.POSS-alone sleep-INF NEG-be_alright-NPST-2SG-NEG=NMLZ.SG
 Both: ‘You should not sleep alone.’

When transitive verbs are embedded, the choice of which argument to raise is determined by pragmatics, i.e. by the question which argument is pragmatically more salient (19).⁷ Thus, transitive embedded clauses are potentially ambiguous, when there is no overt A argument in the ergative (see (19b)). Such ambiguities are resolved by context.

- (19) a. *kaniŋ kha siau=ci ca-ma*
 1PL these apple=NSG eat-INF
n-leŋ-me=ha=ci
 NEG-be_alright-NPST=NMLZ.NSG=NSG
 ‘We are not allowed to eat these apples.’ (P)
- b. *ka mok-ma n-leŋ-meʔ-ŋa-n=na!*
 1SG[ERG/NOM?] beat-INF NEG-be_alright-NPST-1SG=NMLZ.SG

⁷Information structure has not been studied in depth for Yakkha yet. Impressionistically, an argument can be raised either when the discourse is about that argument (i.e., topic), but also when the reference of that argument is singled out against other possible referents (i.e., focus).

‘It is not alright to beat me!’ (P) OR
 ‘I should not beat (others).’ (A)

The verb *leŋma* does not only occur with infinitival complements. It can be found following non-embedded structures such as converbal clauses (20a), and it is also found with nominal objects (20b), where it basically just has the meaning ‘be, become’. *leŋma* does not only express social acceptability, it can also express personal attitudes (20c). The clause providing the context for the expressed attitude is marked with a sequential marker followed by the additive focus particle, so that the clause acquires a concessive reading. The verb *leŋma* in the third person singular nonpast inflection (*leŋme?na*) has also developed into a fixed expression ‘It’s alright’.

- (20) a. *ce?ya=ŋa=se ŋ-khas-i?-wa-n=na, cama*
 language=ERG=RESTR NEG-be_full-1PL-NPST-NEG=NMLZ.SG, food
 men-ja-le n-leŋ-me-n=na
 NEG-eat-CVB NEG-be_alright[3SG]-NPST-NEG=NMLZ.SG
 ‘One will not be satisfied just by talking, there is no way but to eat food.’
- b. *paŋ=be ta-me?-ma n-yas-u-ga-n bhoŋ,*
 house=LOC arrive-CAUS-INF NEG-be_able-3.P-2SG.A-NEG COND
 aniŋga=ca n-leŋ-me-n, ŋga=ca
 1P.EXCL.POSS=ADD NEG-be_alright[3SG]-NPST-NEG 2SG.POSS=ADD
 n-leŋ-me-n
 NEG-be_alright[3SG]-NPST-NEG
 ‘If you cannot bring it (the stone) home, it will neither belong to us nor to you.’ [37_nrr_07.013]
- c. *ka sa matniŋ=hoŋ=ca leŋ-me?-ŋa=na*
 1SG meat without=SEQ=ADD be_alright-NPST-1SG=NMLZ.SG
 ‘I am fine also/even without (eating) meat.’

15.1.7 The Necessitative Construction

15.1.7.1 Introduction

Yakkha has an infinitival construction that expresses necessities, either with a deontic or with a dynamic reading. Deontic modality is understood as the expression of a moral obligation of an event, as assessed by the speaker or by someone else, if one reports on others’ assessments of a situation (following the distinctions made e.g. in Nuyts (2006: 2ff) or in Van linden (2012: 12ff)). In dynamic readings, the expressed necessity is not grounded in the attitudes of the speaker, but in the ex-

The construction in most cases simply consists of an infinitive to which one of the nominalizing clitics is added (either =*ha* or =*na*, see (21a)).⁸ Alternatively, the infinitive can also be followed by a copular auxiliary.⁹ This is found when the argument is singled out pragmatically, which is tentatively analyzed as focus here (21b). The auxiliary is obligatory in scenarios with first or second person objects. Although the occurrence of the auxiliary in this construction is conditioned by reference and pragmatics, it exhibits an interesting alignment pattern that is conditioned by syntactic roles and referential properties of the arguments (for details cf. below). Both verbs constitute a tightly-knit unit in the Necessitative Construction. Thus, formally it is rather a simple clause consisting of an infinitive and an auxiliary.

The following examples provide an overview of the different readings that the Necessitative Construction may have. The dynamic reading is exemplified in (22). Here, the conditions for the necessity of the event lie in the circumstances of the situation: in the fact that people are starving in (a), and in the fact that the stone should not get wet in (b) (both from mythical narratives). Deontic examples are shown in (23). It is straightforward that both utterances express the attitude of the speakers. What these examples also show is that the infinitives in this construction can be inflected by the nonsingular marker =*ci* when the object has nonsingular number (see (23), also mentioned above). In three-argument constructions of the double-object frame, the G argument triggers =*ci* (23c).

⁸See Chapter 13.3.3 for the functions and etymology of these nominalizers.

- b. *yapmi paŋ-paŋ=be nak-saŋ khe?-m=ha*
 people house-house=LOC ask-SIM go-INF[DEONT]=NMLZ.NSG
 ‘The people have to go from house to house, asking (for food).’
 [14_nrr_02.029]
- (23) a. *nna=haŋ=maŋ kaniŋ=ca eŋ=ga pama=ci pyak*
 that=ABL=EMPH 1PL=ADD 1PL.INCL.POSS=GEN parents=NSG much
luŋma tuk-ma=ha=ci
 liver pour-INF[DEONT]=NMLZ.NSG=NSG
 ‘So that is why we too have to love our parents very much.’
 [01_leg_07.086]
- b. *thim-m=ha=ci*
 scold-INF[DEONT]=NMLZ.NSG=NSG
 ‘They (the young people) have to be scolded.’
- c. *wa=ci pi?-m=ha=ci*
 chicken=NSG give-INF[DEONT]=NMLZ.NSG=NSG
 ‘It has to be given to the chicken.’ (G)

It is not uncommon for constructions expressing deontic modality to develop further meanings. A directive speech act is shown in (24a). The directive is somewhat related to the expression of an attitude, with the difference lying not in the semantics, but in the type of speech act (assertion vs. command). At least one example, taken from a narrative, also points towards an evidential usage of the Necessitative Construction (24b). The context of this utterance is that a king named Helihang is said to have set out to search for the lost language of the Yakkha people. Before doing so, he erected a marble stele at the foot of Mount Kumbhakarna, in order to let his people know whether he was still alive. As long as this stele does not topple over, the people shall know that he is still alive, searching for their language. This example provides a bridging context between deontic and epistemic modality, as one can read it in two ways: either the people infer from the stele standing upright that their king is still alive, (epistemic modality), or the people know that they are expected to think that he is still alive, as he told them so when he departed on his search for the language (deontic modality).

- (24) a. *ŋkha=ci ham-bi?-ma=ci, ŋ-ga-ya=oŋ,*
 those=NSG distribute-V2.GIVE-INF[DEONT]=NSG 3PL-say-PST=SEQ,
 ‘After they said: It has to be distributed among those (who do not have food), ...’
 [14_nrr_02.031]

- b. *nna ceŋ waiʔ=na=ŋa haku=ca kaniŋ i*
 that upright be[3SG]=NMLZ.SG=ERG now=ADD 1PL what
miʔ=m=ha baŋniŋ: (...)
 think-INF=NMLZ.NSG about
 ‘Since that (stele) stands upright, what we have to think even now, ...’
 [18_nrr_03.031]

The negated forms of this construction, marked by prefix *men-*, express the necessity for an event not to happen (see (25a) and (25b)). The deontic meaning has scope over the negation, not the other way round. Negating the necessity of an event is expressed by a construction involving a Nepali loan *parnu* (‘fall/have to’) and the light verb *cokma* ‘do’ (25c). The negation of the infinitive is formally different from the negation in the verbal inflection, and identical to the negation in another uninflected form, the negative converb.

- (25) a. *nhaŋ cautara=ca men-jok-m=ha=ci,*
 and_then resting_place=ADD NEG-make-INF=NMLZ.NSG=NSG
barpipal=ca men-lip-m=ha=ci
 banyan_tree=ADD NEG-plant-INF=NMLZ.NSG=NSG
 ‘And neither are they allowed to build resting places, nor to plant banyan trees.’
 [11_nrr_01.017]
- b. *chubuk=ka caleppa=chen isa=ŋa=ca heʔniŋ=ca*
 ashes=GEN bread=TOP who=ERG=ADD when=ADD
men-ja-ma=na
 NEG-eat-INF[DEONT]=NMLZ.SG
 ‘No one should ever have to eat the bread made of ashes.’
 [40_leg_08.082]
- c. *iha=ca im-ma por-a n-jorŋ-me-ŋa-n*
 what=ADD buy-INF have_to-NATIV NEG-do-NPST-1SG-NEG
 ‘I do not have to buy anything.’
 [28_cvs_04.187]

15.1.7.2 Alignment patterns

After the basic morphological and semantic properties have been introduced, let us now turn to the argument realization in this construction. I will show how the nominalizing clitics attaching to the infinitive are aligned and how the copular auxiliary is aligned.

Table 15.4 shows the distribution of the two constructions over participant scenarios. The default option in my Yakkha corpus is the construction without the

A>P	1	2	3
1	-	INF+COP	INF+COP or INF
2	INF+COP	-	INF+COP or INF
3-ERG	INF+COP	INF+COP	INF

Table 15.4: Two options of the Necessitative Construction

auxiliary.¹⁰ In scenarios with third person acting on third, it is the only option. In scenarios with first or second person objects, however, only the construction with the auxiliary is acceptable.

Table 15.5 shows the suppletive inflectional paradigm of the copula (present, affirmative). The forms resemble the agreement suffixes in the verbal inflection, so that I assume that there was a phonologically light stem in an earlier stage that got lost over time.¹¹ In the past paradigms, there is a stem *sa*, and the person inflection is regular (see Chapter 8.7), but in the present forms the stem is zero. This copula does not have infinitival forms. An equational copula as such does not belong to the general morphological profile of Kiranti languages (Bickel 1999c: 276). What is crucial for the following discussion of the data is that the copula has only one agreement slot.

	1.EXCL	1.INCL	2
SG	ŋan		gan
DU	nciŋan	ncin	ncigan
PL	siŋan	sin	sigan

Table 15.5: Inflection of the copular auxiliary (present indicative, affirmative)

As for the agreement of the auxiliary, with intransitive verbs it simply agrees with the embedded S argument, as shown in (26a) below. If transitive verbs are

¹⁰As for the auxiliary, elicited paradigms from different speakers on various occasions and plenty examples from unrecorded spontaneous discourse exist to illustrate its alignment.

¹¹Related person suffixes in Yakkha are *-ŋ(a)* for first person (exclusive), *-ka ~ -ga* for second person, and *-ci* for the dual. The initial /s/ of the plural forms and the dual forms starting in *nci* cannot be related to the agreement morphology of Yakkha, but Limbu, the eastern neighbour of Yakkha, has a 3nsg object agreement marker *-si* (van Driem 1987: 76).

embedded, the agreement exhibits an intricate combination of hierarchical¹² and ergative alignment,¹³ as shown schematically below. Since there are no forms for the third person, non-local scenarios (3>3) are always marked just by the infinitive and the nominalizers (=na or =ha).

A>P	1/2	3
1/2	P	A
3-ERG	P	-

In mixed scenarios (either 3>SAP or SAP>3) the speech-act participant rules out third person (i.e., hierarchical agreement; compare (26b) with (26c) and (26d)).

- (26) a. **nda** *ap-ma* **gan**
 2SG go-INF[DEONT] COP.2SG
 ‘You have to come.’
- b. **ka** *uŋci soʔ-ma* **ŋan**
 1SG 3NSG watch-INF[DEONT] COP.1SG
 ‘I have to watch them.’ (SAP>3: A)
- c. *uŋ=ŋa* **nda** *soʔ-ma* **gan**
 3S=ERG 2SG watch-INF[DEONT] COP.2SG
 ‘He has to watch you.’ (3>SAP: P)
- d. *uŋ=ŋa* **ka** *soʔ-ma* **ŋan**
 3S=ERG 1SG watch-INF[DEONT] COP.1SG
 ‘He has to watch me.’ (3>SAP: P)

In local scenarios (SAP>SAP), the copula always agrees with the P argument, as illustrated by (27). This is a rigid syntactic constraint; the agreement is not manipulable by changes in the information structure. There is no context in which a clause like (27a) could mean ‘you have to watch me’. Comparing local scenarios to intransitive verbs, we can see that S and P are treated alike and differently from A arguments, hence this is a case of ergative alignment. Ergativity in complement constructions was also found in the neighbouring languages Belhare (Bickel 2004a, Bickel & Nichols 2001) and Chintang (Bickel et al. 2010). Still, it is crosslinguistically pretty quirky in complement constructions, or at least it is not

¹²Hierarchical alignment is the ‘morphological and syntactic treatment of arguments according to their relative ranking on the referential (...) hierarchies’ (Siewierska 1998: 10). With reference to agreement, this means that ‘access to inflectional slots for subject and/or object is based on person, number, and/or animacy rather than (or no less than) on syntactic relations’ (Nichols 1992: 66).

¹³Ergative alignment is given when S and P arguments are treated alike and differently from A arguments.

documented well enough, which has even led Dixon (1994: 135) to the conclusion that complement clauses are universally accusatively aligned.

- (27) a. *ka nda soʔ-ma gan*
 1SG 2SG watch-INF[DEONT] COP.2SG
 ‘I have to watch you.’ (SAP>SAP: P)
- b. *nda ka soʔ-ma ŋan*
 2SG 1SG watch-INF[DEONT] COP.1SG
 ‘You have to watch me.’ (SAP>SAP: P)

Table 15.6 summarizes the copula forms in the Necessitative Construction. It shows the hierarchical alignment according to an SAP>3 hierarchy, and in local (SAP>SAP) scenarios, it shows the ergative alignment. Some alternations between speakers should be mentioned. For one speaker (out of four), not the whole paradigm was possible. The brackets indicate those forms that were rejected and replaced by the construction without the copula. A possible explanation for the rejection of these forms could be a Face-preserving strategy. Explicit reference to a second person agent or a first person patient is avoided in necessitative contexts. Scenarios with a second person A and with a first person P are socially sensitive (e.g. ‘You have to [give/serve/help] us.’), and therefore speakers prefer to leave reference to any participant unexpressed. An exception to this strategy are those scenarios where both actants have singular number and thus are clearly identifiable anyway. The avoidance of explicit reference to first person nonsingular patients as a Face-preserving strategy is not surprising at all in light of the verbal inflectional paradigms of Yakkha (cf. Chapter 11.3.1.3 for details and a possible historical scenario). Avoiding reference to a second person agent, however, is innovative and limited to this construction.

The following examples illustrate the alignment in verbs of the double object class by means of *piʔma* ‘give’, which is usually aligned with the primary object (treating G identically to the P of monotransitive verbs). This is also reflected in the Necessitative Construction. In mixed scenarios, it is always the speech-act participant that triggers agreement in the auxiliary, according to a referential hierarchy [SAP>3], as examples (28a) and (28b) show. In local scenarios, it is the G argument that triggers the agreement, as examples (28c) and (28d) illustrate. Thus, we have again a combination of reference-based and role-based alignment.

- (28) a. *uŋ=ŋa ka cuwa piʔ-ma ŋan*
 3NSG=ERG 1SG beer give-INF[DEONT] COP.1SG
 ‘He has to give me beer.’ (3>SAP: G)

A>P/G	1SG	1DU	1PL	2SG	2DU	2PL	3		
1SG				gan	ncigan	sigan	ɲan		
1DU.EX							nciɲan		
1PL.EX							siɲan		
1DU.IN							ncin		
1PL.IN							sin		
2SG	ɲan	(nciɲan)	(siɲan)				(gan)		
2DU	(ɲan)						(ncigan)		
2PL	(ɲan)						(sigan)		
3SG	ɲan	(nciɲan/	(siɲan/	gan	ncigan	sigan			
3NSG	(ɲan)	ncin)	sin)						

Table 15.6: Complete paradigm of the auxiliary in the Necessitative Construction

- b. *ka uŋci cuwa piʔ-ma ɲan*
 1SG[ERG] 3NSG beer give-INF[DEONT] COP.1SG
 ‘I have to give them beer.’ (SAP>3: A)
- c. *ka njiŋda cuwa piʔ-ma cigan*
 1SG[ERG] 2DU beer give-INF[DEONT] COP.2DU
 ‘I have to give you beer.’ (SAP>SAP: G)
- d. *nda ka cuwa piʔ-ma ɲan*
 2SG[ERG] 1SG beer give-INF[DEONT] COP.1SG
 ‘You have to give me beer.’ (SAP>SAP: G)

If the reasoning behind hierarchical alignment systems is transferred to the objects of three-argument verbs, as e.g. suggested in Haspelmath (2004b), Malchukov et al. (2010), Siewierska (2003), one should also find hierarchical alignment of person marking with respect to the T and the G of three-argument verbs. The expected, typical ditransitive scenario contains a referentially high G argument and a referentially low T argument. The interesting question is what happens when this relation is reversed, i.e. when the T argument is higher on a referential hierarchy than the G argument. This is illustrated by the verb *soʔmeʔma* ‘show’ (see (29)). If T is a speech-act participant and G is a third person, the auxiliary indexes T instead of G, and G shows a strong tendency to receive locative case marking. The locative case marking is expectable, as “the construction which is more marked in terms of the direction of information flow should also be more marked formally” (Comrie 1989: 128).

- (29) *ka nda appa-ama=be so?me?-ma gan*
 1SG[ERG] 2SG[NOM] mother-father=LOC show-INF COP.2SG
 ‘I have to show you to my parents.’ (T[SAP]→G[3])

The infinitival form of the lexical verb in the Necessitative Construction usually hosts one of the nominalizing clitics. Their function is best described as focus or lending authority to the assertion (cf. Chapter 13.3.3). Let us now turn to their alignment.

There are two different alignment patterns, depending on whether we are dealing with the construction with or without the auxiliary. The construction without the auxiliary is found only when the P argument has third person reference, because the auxiliary is obligatory in scenarios with first or second person P arguments. The alignment here is clearly ergative, as shown in Table 15.7 and in example (30). The choice of *=na* vs. *=ha* is conditioned by the number of the S argument in intransitive environments (for all persons) and by the number of the (third person) P argument in transitive environments.

- (30) a. *kanin khe?-m=ha, nha?a hum-se*
 1PL go-INF[DEONT]=NMLZ.NSG and_then bury-SUP
khe?-ma=na
 carry_off-INF[DEONT]=NMLZ.SG
 ‘We have to go, and we have to carry him off to bury him.’ (P=sg)
 [29_cvs_05.049]
- b. *na khibum imin kan-nha?-ma=na...*
 this cotton_ball how drop-V2.SEND-INF=NMLZ.SG
 ‘As for how this cotton ball has to be dropped...’ (P=sg)
 [22_nrr_05.092]
- c. *kha?ningo, kanin=go cekci=be ni?-m=ha*
 but 1PL[ERG]=TOP iron=LOC fry-INF[DEONT]=NMLZ.NSG
 ‘But we have to fry (bread) in something made of iron.’ (P=nsg/mass)
 [29_cvs_05.075]

A>P(=S)	3SG	3NSG
1	=na	=ha
2	=na	=ha
3	=na	=ha

Table 15.7: Alignment of the nominalizers, construction without auxiliary

The picture is slightly more complex in the construction with the auxiliary. It is summarized in Table 15.8. When the lexical verb is intransitive, first and second person subjects always trigger *=ha* (see also (31)). In transitive verbs, first and second person P arguments also trigger *=ha*, resulting again in ergative alignment, since speech-act participant S and P arguments are treated identically, but differently from A arguments.

- (31) *ka honkɔŋ kheʔ-m=ha ɲan*
 1SG Hong_Kong go-INF[DEONT]=NMLZ.NSG COP.1SG
 ‘I have to go to Hong Kong.’

A>P/G	1	2	3sg	3NSG	S
1sg			=na		=ha
1NSG.EXCL		=ha			=ha
1NSG.INCL			=ha		=ha
2SG			=na		=ha
2NSG	=ha		=ha		=ha
3SG	=ha	=ha	=na		=na
3NSG			=ha		=ha

Table 15.8: Alignment of the nominalizers, construction with auxiliary

The singular clitic *=na* is only found when a singular A acts on a third person singular P argument. As soon as one participant, no matter which one, has nonsingular reference, *=ha* attaches to the infinitive, illustrated here with 1SG.A acting on 3.SG/NSGP in (32) and with 1PL.A acting on 3.SG/NSGP in (33). This is a hierarchical pattern, according to a number hierarchy [nsg>sg].

- (32) a. *ka na sambakhi ca-ma=na ɲan*
 1SG[ERG] this potato eat-INF=NMLZ.SG COP.1SG
 ‘I have to eat this potato.’
 b. *ka kha sambakhi(=ci) ca-m=ha ɲan*
 1SG[ERG] these potato=NSG eat-INF=NMLZ.NSG COP.1SG
 ‘I have to eat these potatoes.’
- (33) a. *kaniŋ na phɛrsi ca-m=ha siŋan*
 1PL[ERG] this pumpkin eat-INF=NMLZ.NSG COP.1PL.EXCL
 ‘We have to eat this pumpkin.’

- b. *kaniŋ* **kha** *sambakhi(=ci)* *ca-m=ha* *siŋan*
 1PL[ERG] these potato=NSG eat-INF=NMLZ.NSG COP.1PL.EXCL
 ‘We have to eat these potatoes.’

15.1.7.3 Comparative notes and discussion

The alignment in the Necessitative Construction is centered around two factors: person (SAP) and syntactic role (P), and the question which selection principle applies is conditioned by different scenarios: speech-act participant reference is the relevant factor in mixed scenarios, and P is the relevant factor in local scenarios.

The person marking in regular verbs supports this reasoning, as the alignment is more consistent across the columns (representing P) than across the rows (representing A) in the paradigm (cf. Schackow (2012a)). Speech-act participant markers are aligned differently from third person markers. SAP markers show ergative or hierarchical alignment, while the third person is largely accusatively aligned. As I have shown above, the alignment of the nominalizing clitics *=na* and *=ha* is sensitive to participant scenarios. The distribution of tense-marking allomorphs is scenario-based, too (cf. Chapter 8.4). The distinction between speech-act participants and third persons figures as a factor in other constructions: the ergative case is not overtly marked on first and second person pronouns, and the verbal inflection has person markers that have underspecified speech-act participant reference, e.g. *-m* (for first and second person plural A arguments), *-i* (for first and second person plural S and P arguments). Hence, although the alignment of the Necessitative Construction is unique, the selection principles leading to this pattern are found also in other domains of the grammar of Yakkha. Alignment splits serve as scenario classifiers in Yakkha (cf. also Bickel 1992 on Belhare).¹⁴ The person marking in regular verbs supports this reasoning, as the alignment is more consistent across the columns (representing P) than across the rows (representing A) in the paradigm (cf. Schackow (2012a)). Speech-act participant markers

¹⁴In search for a Yakkha-internal explanation of the pattern at hand, it is tempting to attribute the hierarchical alignment to the defective paradigm of the copula: the absence of third person forms provides an empty slot that is filled by the material marking a speech-act participant. The absence of third person forms can, however, not explain the entire picture. Firstly, it does not account for the fact that the copula is obligatory when the object is a speech-act participant, but not when the subject is a speech-act participant. Secondly, there are traces of hierarchical alignment also in the verbal paradigm, although there are markers for the third person available. Scenarios of a 3.A>2.P type, for instance, largely neglect reference to the third person A argument (cf. Chapter 8.2). Furthermore, the defective paradigm of the copula can also not explain the ergative alignment in local scenarios, i.e. why it is always the object that is indexed on the verb in these scenarios.

are aligned differently from third person markers. SAP markers show ergative or hierarchical alignment, while the third person is largely accusatively aligned. As I have shown above, the alignment of the nominalizing clitics *=na* and *=ha* is sensitive to participant scenarios. The distribution of tense-marking allomorphs is scenario-based, too (cf. Chapter 8.4). The distinction between speech-act participants and third persons figures as a factor in other constructions: the ergative case is not overtly marked on first and second person pronouns, and the verbal inflection has person markers that have underspecified speech-act participant reference, e.g. *-m* (for first and second person plural A arguments), *-i* (for first and second person plural S and P arguments). Hence, although the alignment of the Necessitative Construction is unique, the selection principles leading to this pattern are found also in other domains of the grammar of Yakkha. Alignment splits serve as scenario classifiers in Yakkha (cf. also Bickel 1992 on Belhare).¹⁵

Hierarchical patterns are a recurrent feature also in other Tibeto-Burman languages that show person marking, e.g. in Rawang, Kham and in many of the Kiranti languages (cf. DeLancey 1989b: 317, LaPolla 1992: 311, LaPolla 2003: 30ff, LaPolla 2007, Ebert 1987: 473, DeLancey 2011b: 1, Watters 2002: 398). The particular pattern that was found in Yakkha has been attested, with varying degrees of transparency, in Tibeto-Burman languages of various geographic origins and sub-branches, dating back to Tangut sources as early as from the 12th century (Kepping 1975; 1994). Watters (2002), comparing the person marking system of the Kham dialects with person marking in other Tibeto-Burman languages, finds hierarchical patterns in many Gyarong, Nocte and Western Kiranti languages, with SAP outranking third person and, crucially, with a preference for the object in conflicting scenarios (Nagano (1984), cited in Watters (2002: 388ff)). The alignment in the Yakkha Necessitative Construction also resembles Proto-Tibeto-Burman agreement, as reconstructed in DeLancey (1989b), who characterizes the system as ‘a split ergative agreement pattern in which agreement is always with

¹⁵In search for a Yakkha-internal explanation of the pattern at hand, it is tempting to attribute the hierarchical alignment to the defective paradigm of the copula: the absence of third person forms provides an empty slot that is filled by the material marking a speech-act participant. The absence of third person forms can, however, not explain the entire picture. Firstly, it does not account for the fact that the copula is obligatory when the object is a speech-act participant, but not when the subject is a speech-act participant. Secondly, there are traces of hierarchical alignment also in the verbal paradigm, although there are markers for the third person available. Scenarios of a 3.A>2.P type, for instance, largely neglect reference to the third person A argument (cf. Chapter 8.2). Furthermore, the defective paradigm of the copula can also not explain the ergative alignment in local scenarios, i.e. why it is always the object that is indexed on the verb in these scenarios.

a 1st or 2nd person argument in preference to 3rd person, regardless of which is subject or object.’ (DeLancey 1989b: 317).¹⁶

A potentially interesting side note in this respect is that the same alignment split (ergative and hierarchical, conditioned by a distinction of speech-act participant vs. third person) is also found in the verbal agreement of the Caucasian (Nakh-Daghestanian) language Dargwa (Zúñiga 2007: 208). The pattern is neither a one-off case, nor is it restricted to Tibeto-Burman. Of course, more cross-linguistic data would be needed to be able to corroborate any functional-typological explanation for this alignment split. Indeed, it would be exciting to discover that this pattern is more widespread than currently assumed. According to Serdobolskaya (2009), referential properties also play a role in raising constructions in some Uralic, Turkic and Mongolic languages, and she tentatively suggests this to be an areal feature. More data on other languages could help to answer the question if this feature really has an areal distribution.

On a final note, the auxiliary in the Necessitative Construction is often replaced by the third person form of the Nepali auxiliary *parnu* ‘fall/have to’, as shown in (34). In this calqued structure, the peculiar alignment pattern Necessitative Construction gets lost.

- (34) *kʌhile-kʌhile* *mamu=ŋa=ca* *taʔ-ma=ci* *parchʌ*
 sometimes girl=ERG=ADD bring-INF=NSG HAS_TO
 ‘Sometimes, the girl has to bring them (further wives), too.’ [06_cvs_01.044]

15.2 Inflected complement clauses

Inflected complement clauses are found with predicates of cognition like *nima* ‘see, get to know’, *khemma* ‘hear’, *miʔma* ‘think, hope, consider, like’ (see §15.2.1) and utterance predicates such as *luʔma* ‘tell, say’, *yokmepma* ‘tell (about)’, *chimma* ‘ask’ (see §15.2.2). Table 15.2 on page 459 provides the list of all complement-taking predicates that embed clauses with inflected verbs.

Complement clauses in Yakkha distinguish quoted (direct) speech and indirect speech. In case of indirect speech, the clauses contain nominalized inflected verbs. In case of quoted speech, the verbs are able to express the full range of verbal

¹⁶As noted earlier, Tibeto-Burman reconstruction and subgrouping are far from being settled, see e.g. Thurgood (1984), DeLancey (1989b; 2010; 2011b), LaPolla (1992; 2012), Jacques (2012). Under the assumption that a sub-branch *Rung* exists (see the references from Thurgood and LaPolla), those Tibeto-Burman languages showing agreement would be related on a lower level than Proto-Tibeto-Burman.

categories found in independent clauses. Some types of complement clauses are marked by the conjunction *bhoŋ* that also functions as a marker of conditional clauses, quoted speech and purpose clauses. The latter seem to have developed out of clauses containing quoted speech (see Chapter 14.9). Some complement-taking verbs are polysemous, their semantics depending on whether they occur with an infinitival or with an inflected complement. For instance *mi?ma* means ‘like (doing)’ with infinitival complements, but ‘think, hope, consider’ with inflected complements. The verb *nima* means ‘know (how to do)’ with infinitival complements, but ‘see, get to know’ with inflected complements.

Some nouns may embed propositions as well, by means of the complementizer *baŋna/baŋha* (cf. §15.2.3).

15.2.1 Predicates of cognition and experience

The complement-taking predicates of cognition can be further classified into predicates of knowledge, perception, experience and propositional attitude. The most common predicate embedding inflected complements is *nima* ‘to see or get to know something’, exemplified in (35). The embedded verb is mostly in one of the indicative past tenses and has to carry one of the nominalizers *=na* or *=ha* (cf. Chapter 13). The embedded subject obligatorily triggers agreement both on the embedded verb and on the main verb. On the main verb, it triggers object marking (see (35b)). This can be explained from a semantic perspective: perceiving that a person is doing something implies perceiving that person. The argument realization in the complement clause is identical to that of independent clauses. The subject of the embedded clause receives ergative case marking when the embedded verb is transitive, although the A argument simultaneously triggers object agreement on the matrix verb.

The perspective in the complement clauses is that of the speaker, and the zero point is the speech situation; hence, the embedded clause contains indirect speech or indirect questions.

- (35) a. *khy-a-ma=hon so-ks-u=niŋa eko yapmi bhirik=pe*
 go-PST-PRF=SEQ watch-PRF-3.P[PST]=CTMP one person cliff=LOC
het-u=na nis-uks-u.
 get_stuck-3.P[PST]=NMLZ.SG see-PRF-3.P[PST]
 ‘He went there, and when he looked, he saw a man caught in a cliff.’
 [01_leg_07.319]

- b. *ka uŋci=ŋa toŋba ŋ-uŋ-ma-si-a=ha=ci*
 1SG[ERG] 3NSG=ERG beer 3PL-drink-INF-IPFV-PST=NMLZ.NSG=NSG
nis-u-ŋ-ci-ŋ=ha
 see-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
 ‘I saw that they were drinking beer.’

Other verbs of this kind are *mi?ma* ‘think, consider, hope’ and the propositional attitude verb *e?ma* ‘perceive, have impression’, shown in (36) and (37a), respectively. Complement clauses embedded to *e?ma* can also be marked by the equative case *lo?a* ‘like’ (see (37b)). This marker is also used in equative constructions, where it subcategorizes for nouns (NPs) and adjectives. Again, one can see that the embedded subject is cross-referenced by subject marking on the embedded verb and by object marking on the main verb. The form **etuŋna* (assuming third person singular ‘dummy’ object agreement) would be ungrammatical in (37b) and (37c).

- (36) a. *nda cama ca-ya-ga=na mi-nuŋ-nen=na*
 2SG[ERG] rice eat-PST-2=NMLZ.SG think-PRF-1>2=NMLZ.SG
 ‘I have thought you ate the rice.’
 b. *ŋkhatniŋ=ŋa ka=ca sy-a=na mit-a*
 that_time=INS 1SG=ADD die[3SG]-PST=NMLZ.SG think-IMP[1.P]
 ‘At that time, consider me dead (think that I am dead), too.’
 [18_nrr_03.018]
- (37) a. *mi mi=na et-u-ŋ=na, khatningo*
 fire small=NMLZ.SG perceive-3.P[PST]-1SG.A=NMLZ.SG, but
ma leks-a-bhoks-a=na
 big become[3SG]-PST-V2.SPLIT-PST=NMLZ.SG
 ‘It seemed to me that the fire was small, but suddenly it flamed up.’
 b. *haŋ=ha c-wa-g=ha lo?a*
 be_spicy=NMLZ.NC eat-NPST-2.A[3.P]=NMLZ.NC like
e?-nen=na
 perceive[PST]-1>2=NMLZ.SG
 ‘It seems to me that you eat spicy things.’ OR ‘You seem to me like someone who eats spicy things.’
 c. *pyak ŋ-wai?=ya lo?a*
 many 3SG-exist=NMLZ.NSG like
et-u-ŋ-ci-ŋ=ha, khatningo
 perceive-3.P[PST]-1SG.A-3NSG.P-1SG.A=NMLZ.NSG but
m-man=ha=ci!
 NEG-COP[NEG]=NMLZ.NSG=NSG

‘It seemed to me that there were many, but there were none!’

When the embedded clause has hypothetical or irrealis status, it is in the optative, and the main verb *mi?ma* ‘think’ acquires the reading ‘hope’.

- (38) *hakt-a-η-ga-ni* *bhoη* *mit-a-masa-η=na*
 send-SBJV-1SG.P-2-OPT COMP think-PST-PST.PRF-1SG=NMLZ.SG
 ‘I had hoped that you would send me something.’

Another use of *bhoη* is marking complements of experiential verbs like *consi?ma* ‘be happy’ and verbs like *niηwa hupma* ‘make a plan together, decide collectively’. In such sentences, the embedded clause contains quoted direct speech, with the full range of inflectional categories being possible on the embedded verb. The speaker shifts the perspective to the subject of the embedded clause (see e.g. first person singular A in (39a), hortative mood in (39b)), interrogative mood (39c)). The literal translation of (39a) would be ‘He rejoiced: I saved another man’s life!’.

- (39) a. *lamdikpa cahi yapmi hiη-u-η=na* *bhoη*
 traveller TOP person save[PST]-3.P-1SG.A=NMLZ.SG COMP
cond-a-sy-a-ma.
 be_happy[3SG]-PST-MDDL-PST-PRF
 ‘The traveller was happy that he saved another person’s life.’
 [01_leg_07.331]
- b. *yaηchalumba a-phu=nun* *khi khon-se*
 third-born_boy 1SG.POSS-elder_brother=COM yam dig-SUP
puηda=be khe-ci *bhoη niηwa hupt-a-η-c-u-η.*
 jungle=LOC go-DU[SBJV] COMP mind unite-PST-EXCL-DU-3.P-EXCL
 ‘So my third-born brother and I decided to go to the jungle to dig yams.’
 [40_leg_08.006]
- c. *haku imin nak-ma=ci* *bhoη, uηci-niηwa*
 now how ask-INF[DEONT]=NSG COMP 3NSG.POSS-mind
η-hupt-u.
 3PL.A-unite-3.P[PST]
 ‘They decided about how to ask them (for food).’ [14_nrr_02.14]

Since some complement-taking predicates are also able to take nominal objects, there is potential ambiguity between inflected complement clauses and circumnominal relative clauses (see also Bickel (1999c: 272ff), Noonan (2007: 120,143)): the two propositions ‘I hear the one who is singing’ and ‘I hear that someone is singing’ refer to exactly the same situation in the world. The sentences in example (40) are potentially ambiguous, and there is no structural difference that could

resolve the ambiguity (see also Chapter 13.3.1.2). It seems that internally headed relative clauses have developed out of complements of perception verbs and were then extended analogically to other kinds of verbs which rule out a complemental reading, such as *tumma* ‘find’, allowing only nominal arguments.

- (40) a. *nna ten=be=ha=nun walen ten=be=ha*
 that village=LOC=NMLZ.NSG=COM Waleng village=LOC=NMLZ.NSG
kholonba=ci chem-khusa un-khusa n-ja-ya
 guests=NSG tease-RECIP pull-RECIP 3PL-EAT.AUX-PST.NMLZ.NSG
nis-u-η-ci-η.
 see[PST]-3.P-1SG.A-3NSG.P-1SG.A
 ‘I saw the people of the village and the guests teasing and pulling each other (jokingly in a dance).’ OR
 ‘I saw how the people of the village and the guests were teasing and pulling each other (jokingly in a dance).’ [41_leg_09.017]
- b. *ka hancaṇcaṇ chu-ya-η=na nis-a-ma.*
 1SG dangling hang-PST-1SG=NMLZ.SG see-PST-PRF[3A;1.P]
 ‘They saw me dangling (there).’ OR
 ‘They saw how I dangled there.’ [42_leg_10.040]

15.2.2 Utterance predicates

Utterance predicates distinguish between those that embed indirect speech (as already introduced in the predicates of cognition) and those that embed quoted speech. Some verbs may occur with both indirect speech and quoted speech, for instance *mi?ma* ‘think’. Predicates embedding indirect speech or indirect questions are for instance *yokme?ma* ‘tell (about)’ and *khemme?ma* ‘tell, make hear’ (see (41)), while direct speech is embedded mainly by the predicates *kama* ‘say, call’ and *lu?ma* ‘tell’.

The complement clauses of both types of utterance predicates can be marked by *bhoṇ*, the complementizer that is also found as a quotative marker and as conjunction on purpose clauses and conditional clauses.¹⁷ This complementizer is frequently found on clauses containing indirect speech and indirect questions (see (41)), and rarely on clauses containing direct speech (see (42e)).

- (41) a. *ak=ka kamniwak=ci, ka isa om, isa om bhoṇ*
 1SG.POSS=GEN friend=NSG 1SG who COP who COP COMP
un-ci=ηa=ca n-yokme-me-ka-nin.
 3NSG=ERG=ADD NEG-tell_about-NPST-2-PL.NEG

¹⁷These uses of *bhoṇ* are parallel to the functional distribution of the Nepali conjunction *bhane*.

- ‘My friends, they will also not tell you who I am.’ [14_nrr_02.25]
- b. *philm=be=cen haku i=ya i=ya*
 film=LOC=TOP now what=NMLZ.NC what=NMLZ.NC
cok-ma-sy-a=na bhon khem-me?-me?-nen=ba,
 do-INF-AUX.PROG[3SG]-PST=NMLZ.SG COMP hear-CAUS-NPST-1>2=EMPH
ani.
 aunt
 ‘I will tell you now what he was doing in the film, auntie.’ [34_pea_04.007]
- c. *nna cu?lumphi isa=ŋa thukt-u=na bhon pyak*
 that stele who=ERG erect-3.P[PST]=NMLZ.SG COMP many
pyak yapmi=ci=nun ce?ya leks-a=ha.
 many people=NSG=COM matter become[3SG]-PST=NMLZ.NC
 ‘Many people have discussed who erected that stele.’ [18_nrr_03.002-3]

Direct speech (quotes) may show the full range of tense, aspect and modal marking, and also any type of illocutionary force marking, clause-final exclamative particles and the like. The person marking on the embedded verb follows the perspective of the embedded subject, not the perspective of the speaker. Quoted speech is generally embedded without any complementizer, as shown in the following examples, with *kama* ‘say’, *lu?ma* ‘tell’, *mi?ma* ‘think’ and *chimma* ‘ask’ as matrix verbs (see (42), and see (42e) for an exceptional case without *bhon*).

- (42) a. *khamba=ŋa a-tokhumak yep-ma*
 pillar=ERG 1SG.POSS-alone stand-INF
n-ya-me-ŋa-n=na ka-saŋ
 NEG-be_able-NPST-1SG-NEG=NMLZ.SG say-SIM
por-a-khy-a=na
 fall[3SG]-PST-V2.GO-PST=NMLZ.SG
 ‘I cannot stand alone, said the pillar and fell down.’ [27_nrr_06.17]
- b. *heko=ha nwak=ci=ŋa haku nda nhe uŋ-ma*
 other=NMLZ.NSG bird=NSG=ERG now 2SG here come_down-INF
n-dokt-wa-ga-n=na n-lu-ks-u
 NEG-get_to_do-NPST-2.A[3.P]-NEG=NMLZ.SG 3PL.A-tell-PRF-3.P[PST]
 ‘The other birds told him: Now you will not get the chance to come down here any more.’ [21_nrr_04.035]
- c. *hetne=le ta-?i=ya m-mit-a-ma=hoŋ uŋci*
 where=CTR come-1PL=NMLZ.NSG 3PL-think-PST-PRF=SEQ 3NSG
m-maks-a-by-a-ma=ca
 3PL-be_surprised-PST-V2.GIVE-PST-PRF=ADD

- ‘They also wondered: Where on earth did we arrive?’ [22_nrr_05.30]
- d. *hetniŋ-hetniŋ om=em men=em mit-wa-m=ha*
 sometimes yes=ALT no=ALT think-NPST[3.P]-1PL.A=NMLZ.NC
 ‘Sometimes we think: Is it (true) or not?’
- e. *nani, i=na yubak?, n-chimd-uks-u.*
 child what=NMLZ.SG property 3PL.A=ask-PRF-3.P[PST]
 ‘Child, what thing (do you want)?, they asked her.’ [37_nrr_07.006]
- f. *imin kaniŋ cin-a cok-me?-nen-in? bhoy*
 how 1PL recognize-NATIV do-NPST-1>2-2PL QUOT
elaba=ci=ŋa n-lu-ks-u-ci.
 a_clan=NSG=ERG 3PL.A=tell-PRF-3.P[PST]-3NSG.P
 ‘How will we recognize you?, asked the Elabas (people of Elaba clan).’
 [39_nrr_08.11]

In a few cases, the hearsay particle =*bu* is also found on embedded speech (see (43a) for direct speech, and (43b) which could be either direct or indirect speech).

- (43) a. *por-a cog-a=bu lu-ya-n-u-m.*
 study-NATIV do-IMP=HSY tell-IMP-PL-3.P-2.A
 ‘Tell him to study.’ (‘Tell him: study!’) [01_leg_07.094]
- b. *kham=be=ca n-yuŋ-me-n, siŋ=be=ca man,*
 earth=LOC=ADD NEG-live[3SG]-NPST-NEG tree=LOC=ADD NEG.COP
hi?wa=ga hi?wa wait=na=bu ŋ-ga-me
 air=GEN air exist[NPST;3]=NMLZ.SG=HSY 3PL-say-NPST
 ‘It is neither living on the ground nor in the trees, it just lives in the
 air, they say.’ [21_nrr_04.052]

Example (44) serves to illustrate that question words remain *in situ* in quoted speech; they do not get extracted. Semantically, the question word belongs to the embedded clause, because it is an argument of *khu?ma* ‘bring’. It is, however, the focus of the question and hence appears as question word. The particle =*le* serves as contrastive focus marker, and in questions it emphasizes the cluelessness of the speaker and his eagerness to get to know the answer.

- (44) *nda ka ina=le khut-a-ŋ ly-a-ŋ-ga=na?*
 2SG[ERG] 1SG what=CTR bring-IMP-1SG tell-PST-1SG.P-2.A=NMLZ.SG
 ‘What did you tell me to bring?’

15.2.3 Complement-taking nouns

Nouns can embed finite complement clauses via the use of the complementizers *baŋna* (if the head noun has singular number) and *baŋha* (if the head noun has nonsingular number or non-countable reference).

Example (45a) shows how *baŋna* links propositions to a head noun from the semantic domain of saying. In (45b) the head noun is from the experiential domain. As (45c) illustrates, the complement clause can be of considerable length and complexity. Narratives often conclude with a structure as shown in (45d).

- (45) a. *na chu?lumphi helihan=ŋa thukt-u=na baŋna*
 this stele Helihang=ERG erect-3.P[PST]=NMLZ.SG COMP
ce?ya
 matter
 ‘the matter about how/when this stele was erected by Helihang’
 [18_nrr_03.004]
- b. *a-ma=ŋa moŋ-me?ha baŋna kisi?ma=ŋa*
 1SG.POSS-mother=ERG beat-NPST[1.P]=NMLZ.NSG COMP fear=ERG
 ‘Out of fear that my mother would beat us, ...’
 [40_leg_08.030]
- c. *nhaŋroŋ-hoknam=be me-wasi?-le me-wacek-le camenba*
 a_festival=LOC NEG-wash-CVB NEG-wash-CVB food
ca-ma bhoŋ samba-nwak leks-i?-wa, phak
 eat-INF COND vulture become-1PL-NPST pig
men-seme?-le ca-ya bhoŋ phak lo?wa pombrekpa,
 NEG-greet-CVB eat-SBJV COND pig like lazy
chippakeppa leks-i?-wa baŋna eko
 disgusting become-1PL-NPST COMPL one
lu-yukt-a=na ce?ya we?=na
 tell-V2.PUT-3.P=NMLZ.SG story exist[3SG]=NMLZ.SG
 ‘We have a saying that during Maghe Sankranti, if we eat without bathing, we will become a vulture, and if we eat without bowing down to the pig, we will become lazy and disgusting like a pig.’
 [40_leg_08.047]
- d. *nnakha laluban phaluban=ci ŋkha liŋkha=ci*
 those Lalubang Phalubang=NSG those Linkha_person=NSG
iya ŋ-wa-ya, ŋkha=ci ghak eko n-leks-a=bu
 what 3PL-exist-SBJV those=NSG all one 3PL-become-PST=HSY
baŋna taplik om
 COMPL story COP

‘Those Lalubang and Phalubang, those Linkhas, whatever happens,
they all became one (they say), (this) is what the story is about.’

[22_nrr_05.134]

Such structures do not necessarily need a head noun, as example (46) shows.

- (46) *keŋ-khuwa u-thap-ka koleŋ=na sumphak baŋna*
 bear_fruit-NMLZ 3SG.POSS-plant=GEN smooth=NMLZ.SG leaf comp
na=maŋ om.
 this=EMPH COP

‘This is what it means if we say: the high-yielding plant has smooth leaves.’¹⁸

[01_leg_07.236]

The complementizer is not only used to embed clauses, it may also link names to a head noun, translating as ‘called’ or ‘so-called’ (see (47a) and (47b)). As (47c) shows, this structure does not necessarily need a nominal head either. The phrase marked by *baŋna* has nominal properties, like a headless relative clause. It can, for instance, host the nonsingular marker =*ci* and case markers. This shows again how complementation and nominalization are related in Yakkha (see Chapter 13).¹⁹

- (47) a. *eko selele-phelele baŋna nwak*
 one Selele-Phelele so-called bird
 ‘the bird called Selele-Phelele’ [21_nrr_04.001]
- b. *haŋsewa baŋha yakkha=ci*
 Hangsewa COMP Yakkha_person=NSG
 ‘the Yakkha people called Hangsewa (a clan name)’ [39_nrr_08.06]
- c. *jalangaja, mendenbarik baŋna=be*
 Jalan-Gaja Mendenbarik so-called=LOC
 ‘in a place called Jalan Gaja, Mendenbarik (in Malaysia)’
 [13_cvs_02.063]

¹⁸From the Nepali saying: *hune biruwāko cillo pāt*, for people who show a promising behavior from an early age on.

¹⁹Etymologically, the complementizer can be deconstructed into a root *baŋ* (of unknown origin) and the nominalizers =*na* and =*ha*.

16 Connectives on the text level

This chapter deals with connectives on the text level. These are invariable particles that introduce grammatically independent sentences, but refer back to the content of the previous sentence (or sentences). They always come sentence-initially. Some of these connectives are also deictic temporal adverbs. They indicate relationships of temporal sequence, cotemporality, causality, or negativity. Many of these particles look as if they have been calqued upon Nepali connectives such as *kinabhane* ‘because’ or *tyaspachi* ‘afterwards, and then’, another possibility being that both languages follow a more general areal pattern. Other clause linkage markers occur clause-finally in Yakkha, as described in Chapters 13, 14 and 15.

16.1 Sequential connectives

Sequential connectives have developed from demonstratives (*na*, *kha*, *ηkha*) to which the sequential clause linkage marker *=hoη* has been added, exactly like the Nepali connective *tyas-pachi*. The following forms are found, translatable with ‘after this’, ‘after that’, or more generally with ‘and’ or ‘and then’: *nhaη* (*na-hoη*), *khoη* (*kha-hoη*) and *ηkhoη* (*ηkha-hoη*). Probably, the form *nnhaη* also exists, but as these forms are utterend sentence-initially and usually in very fast speech, such a distinction could not be reliably established. Examples are shown in (1) and (2). The by far most frequent connective is *nhaη*, with 230 occurrences in the corpus (of 3012 clauses), while *ηkhoη* is found 17 times and *khoη* is found 38 times. Occasionally, *nhaη* occurs as *nhaηηa*, marked by the instrumental marker in his function of indicating the time of an event.

- (1) a. *uη=ηa pheri, lu, maiti=ci=be, ka haku*
 3SG=ERG again INIT natal_home=NSG=LOC 1SG now
bagdata=ca nakt-wa-η-ci-η=ha
 marriage_finalization=ADD ask-NPST-1SG.A-3NSG.P-1SG.A=NMLZ.NSG
bhoη=cen eko ce?ya cekt-wa. khoη
 COMPL=TOP one matter speak-NPST[3A;3.P] and_then
bagdata nak-se khe-me?na.
 marriage_finalization ask-SUP go[3]-NPST=NMLZ.SG

- ‘She says: Well, now I will ask my parents for my *bagdata*, too. And she goes to ask for the Bagdata.’¹ [26_tra_02.011-2]
- b. *ah. ηkhon i n-jog-u=ha?*
yes and_then what 3PL-do-3.P[PST]=NMLZ.NC
‘Yes. And what did they do then?’ [20_pea_02.011]
- c. *luηkhwak hon-ma paŋne, nhaŋ khibak=ca*
stone hole_outINF[DEONT] having_to and rope=ADD
ip-ni-ma paŋne sa=bu.
twist-COMPL-INF[DEONT] having_to COP.PST[3]=HSY
‘He had to hole out a grindign stone, and he had to complete making a rope, too, it is said.’ [11_nrr_01.007-8]

Deriving from the most frequent sequential connective *nhaŋ* is a temporal ablative *nhaŋto*. Literally it means ‘and then up’. This connective is also found with complements (see Chapter 5.2.3), referring to a point in time when an ongoing event has started. The event or activity does not necessarily have to go on at the time of speaking. The connective only signifies the initial boundary, as in English ‘from then on’. An example is provided in (2).

- (2) *nhaŋto, garo n-chenɗ-et-wa=na, tokha?la*
from_then_on terrace 3PL.A-mason-V2.CARRY.OFF-NPST=NMLZ.SG upwards
‘From then on, they mason the terrace, upwards.’ [31_mat_01.093]

16.2 Cotemporal connectives

The cotemporal connectives *kha?niŋ* and *ηkha?niŋ* ~ *nnakha?niŋ* are deictic adverbs, based on demonstratives and the cotemporal adverbial clause linkage marker, =*niŋ* (see (3)).

- (3) *ηkha?niŋ eko paŋ=ca m-ma-ya-n=niŋa tumhaŋ=ŋa*
that_time one house=ADD NEG-COP-PST-NEG=CTMP Tumhang=ERG
paŋ cog-uks-u.
house make-PRF-3.P
‘At that time, when there was not even a single house, Tumhang built a house.’ [27_nrr_06.038]

¹The *bagdata* ritual belongs to the marriage custom, see Chapter 2.2.2.5.

16.3 Adversative connectives

Cotemporal connectives have developed into an adversative connective, indicating that the propositional content of the clause stands in contradiction or in contrast to some previous content, or that it restricts the previous information in some way. Their structure is transparent; they are cotemporal connectives marked by the standard topic marker =*ko*. In (4a), the speaker ponders about arranged marriages. The sentence, about a hypothetical groom, stands in contrast to an earlier (hypothetical) statement that he might leave a good impression or talk nicely. Example (4b) is self-explaining.

- (4) *kha?niŋgo imin=na, imin=na, i=na tha?*
 but how=NMLZ.SG how=NMLZ.SG what=NMLZ.SG information
 ‘But how, how will he (a hypothetical husband) be, how to know?’
 [36_cvs_06.336]
- (4) *kha liŋkha=ci=ŋa camyoŋba i=ya=go*
 these Linkha=NSG=ERG food some=NMLZ.NC=TOP
m-bi-ci, kha?niŋ=go phophop=na sumphak,
 3PL.A-give-3NGS.P but upside_down=NMLZ.SG leaf
sumphak phophop n-jog-uks-u=hoŋ=se camyoŋba
 leaf upside_down 3PL.A-do-PRF-3.P=SEQ=RESTR food
m-by-uks-u-ci
 3PL.A-give-PRF-3NGS.P
 ‘These Linkhas gave them some food, but they gave it to them only after turning the leaf plates upside-down.’
 [22_nrr_05.047-8]

16.4 Causal connectives

The connective *ijaŋbaŋniŋ* ‘because’ is used for causal clause linkage. It is constructed in parallel to the Nepali *kina bhane*, out of the interrogative word *ijaŋ* ‘why’ and the textual topic marker *baŋniŋ* (see Chapter 17). An example is provided in (5).

- (5) *ŋkha?niŋgo ka con-si-saŋ, ijaŋbaŋniŋ nna*
 but 1SG be_happy-MDDL-SIM because that
len=bhaŋto=maŋ ka he?niŋ=ca chocholaplap n-jog-a-ŋa-n.
 day=TEMP.ABL=EMPH 1SG when=ADD naughty NEG-do-PST-1SG-NEG

‘But I was happy, because from that day on I never did mischievous things again.’ [42_leg_10.053]

16.5 The connective of negative effect

The connective *manhoŋ* (also [manon], [manuŋ]) stands at the beginning of clauses that contain information about what happens when a previously mentioned condition has not been fulfilled, like English ‘if not’ or ‘otherwise’ (see (6)). It can be decomposed into the negated existential copula *man* and the sequential clause linkage marker *=hoŋ*.

- (6) a. *nhaŋ, henca-khuba=cen yakkha om, man=hoŋ,*
 and_then win-NMLZ=TOP Yakkha_person COP if_not
me-henca-khuba men=na.
 NEG-win-NMLZ=TOP NEG.COP[3]=NMLZ.SG
 ‘Then, the winner is Yakkha; otherwise, the loser, he is not.’
 [39_nrr_08.17]
- b. *ah, manhoŋ, adhi barkha khiŋ*
 yes if_not half year this_much
khoʔ-ni-me.
 be_enough-COMPL-NPST[3SG]
 ‘Otherwise (if the harvest is not enough), we can survive for as much as half a year.’ [28_cvs_04.042]

17 Discourse particles and interjections

This chapter provides an overview of operators on the discourse level. Syntactically speaking they are optional, but of course omitting them does not make sense from discourse perspective. Particles are invariant morphemes and not part of the inflectional paradigm of the verb or the noun. Some particles attach to phrases (potentially including adverbial clauses), others attach to the end of a sentence, and accordingly, their scope properties have the potential to differ (see Table 17.1 for an overview). It should be noted that the term ‘particle’ does not make any statements about their nature, apart from the fact that they are uninflected. The operators discussed here can be phonologically bound, free, or have variable phonological status. Some of them can also be stacked to arrive at more specific discourse functions, which in some cases leads to new, phonologically unbound forms. The functions of the particles include indicating topicalized or focussed constituents of the sentence (cf. §17.1 and §17.2). Other particles rather have scope over a section of discourse that is bigger than one sentence, most prominently *baṇniṇ*. Some particles indicate the source of information (evidentiality markers) and the assessment of the speaker regarding the likelihood or reliability of a piece of information (epistemic markers). They are discussed, together with a marker of mirativity, in §17.3. Exclamative particles are the topic of §17.4. Further particles treated here are the marker of alternatives, the marker of truth-value questions, the vocative and the insistive particles in §17.5. This chapter also contains an overview of the interjections found in Yakkha (§17.6). Two markers are not treated here, although they would also belong into this chapter: the nominalizing clitics *=na* and *=ha*; their discourse function has been discussed at length in Chapter 13.3.3.

Rarely, markers from Nepali are used as well, such as emphatic *ni*, the initiative *lu*, and the probability particle *hola* (paraphrasable with ‘probably’ in English). They are not discussed here. The only markers from Nepali that are found frequently enough to be considered in this discussion are the contrastive topic particle (see §17.1) and the mirative marker (see §17.3).

This chapter has the character of a descriptive overview, providing merely impressionistic conclusions; it does not present a theory of discourse marking in Yakkha, as an in-depth discourse analysis has not been undertaken yet for Yakkha.

PARTICLE	FUNCTION	DOMAIN
= <i>ko</i> ~ = <i>go</i>	topic	phrase, adv. clause
= <i>chen</i>	contrastive topic	phrase
<i>baŋniŋ</i>	textual topic, quotative	adv. clause
= <i>se</i>	restrictive focus	phrase, adv. clause
= <i>ca</i>	additive focus	phrase, adv. clause
= <i>pa</i> ~ = <i>ba</i>	emphasis	sentence
= <i>i</i>	emphasis	sentence
= <i>le</i>	contrastive focus	phrase
= <i>maŋ</i>	emphasis	phrase
= <i>pu</i> ~ = <i>bu</i>	hearsay	phrase, emb. clause
<i>loppi</i>	probability/hypothetical	sentence
= <i>pi</i> ~ = <i>bi</i>	irrealis	clause
<i>rahecha</i>	mirative	sentence
<i>lai</i>	exclamative	sentence
= <i>ʔlo</i>	exclamative	sentence
<i>hau</i>	exclamative	sentence
= <i>em</i>	alternation	clause
<i>i</i>	truth-value question	sentence
= <i>u</i>	vocative	phrase
<i>au</i>	insistive	sentence

Table 17.1: Overview of discourse particles

17.1 Topic

17.1.1 The particle =*ko* ~ =*go*

The topic particle =*ko* ~ =*go* (alternation conditioned by the voicing rule, cf. Chapter 3.5.1) marks the constituent in the sentence about which a question or assertion is made, and is thus only found once in a sentence. It attaches to constituents of any kind (see (1)), including adverbial clauses (see (2)). In (1a), =*go* attaches to a possessive pronoun that refers to the protagonist of a narrative. The constituent

marked for topic does not have to be given in a certain stretch of discourse; in (1b) for instance, the topic of the sentence is a newly introduced discourse topic. In (1c) the assertion is made about a certain time that is expressed by an adverbial.

- (1) a. *uk=ka=go pik=ci wai-sa=bu.*
 3SG.POSS=GEN=TOP COW=NSG exist-PST.PRF=HSY
 ‘He had cows.’ [11_nrr_01.005]
- b. *a-pum=go nu=na hola ni?*
 1SG.POSS-grandfather=TOP get_well[3SG]=NMLZ.SG probably PTCL
 ‘The grandfather is fine, most probably?’¹ [06_cvs_01.083]
- c. *he?nasen=go n-lit-a-ma-n=ha.*
 thesedays=TOP NEG-plant[3SG]-PST-PRF-NEG=NMLZ.NC
 ‘Thesedays it has not been planted.’ [36_cvs_06.094]
- (2) a. *nhe nis-u-η=niη=go pako sa=na*
 here see[PST]-3.P-1SG.A=CTMP=GO old COP.PST[3SG]=NMLZ.SG
 ‘When I had seen him here, he was (already) old.’ [06_cvs_01.088]
- b. *wa=ci η-ga-ya=hon=go om leks-a-khy-a*
 chicken=NSG 3PL-call-PST=SEQ=TOP bright become[3]-PST-V2.GO-PST
 ‘The cocks crowed, and the day started.’ [37_nrr_07.028]
- c. *massina=ci bhon=go, massina=ca η-und-wa=ci*
 small=NSG COND=TOP small=ADD 3PL.A-pull-NPST-3NSG.P
 ‘If they (the fish) are small, they also pull them out.’ [13_cvs_02.021]

The constituent marked by =*ko* comes sentence-initially (see, again, (1) and (2)), or in a detached position. Example (3) shows a right-dislocated topic which is marked by =*ko*, in an afterthought, which was probably uttered to correct the plural marking of the verb to dual in the pronoun. The same is illustrated below by (4b) and (4c).

- (3) *haku i=ya ka-m ha?lo, kanciη=go?*
 now what=NMLZ.SG say-1PL.A[SBJV] EXCLA 1DU=TOP
 ‘Now what shall we say, I mean, the two of us?’ [13_cvs_02.54]

The topic particle is also involved in a fixed construction, where the finite main verb is preceded by its infinitival form, which is marked by the topic particle. This grammatical construction implies that a restriction applies to the propositional content expressed in the sentence (see the examples in (4)). In example (4a), people discuss where one could purchase fish, and that even though a certain household

¹ *hola* and *ni* are Nepali particles; they do not occur frequently (yet), so that they are not treated further here.

might have fish, they probably do not have enough to sell them to others. The question in (4c) makes the implication that things could have gone worse, as the talk is about an arranged marriage. The construction does not only occur with verbs, but also with other word classes in predicative function (see (4d)). The same structure occurs in Nepali, with the infinitive in *-nu* and the topic marker *ta*.

- (4) a. *yo gumba=ci=ge=ca wa-ma=go*
 across Gumba=NSG=LOC=ADD exist-INF=TOP
wam-me=ha,
 exist[3SG]-NPST=NMLZ.NSG
 ‘Gumba’s family over there has some (fish), (but ...)’ [13_cvs_02.057]
- b. *we=ppa, wa-ma=go, ca-ma khoblek.*
 exist[3SG;NPST]=EMPH exist-INF=TOP food eating_up_at_once
cama=ηa η-khom-me-n.
 food=ERG NEG-be_enough[1.P]-NPST-NEG
 ‘There is, there is food, (but) it is eaten up quickly. We do not have enough food.’ [28_cvs_04.169-70]
- c. *nhaη cekt-a-ci=ha, cek-ma=go?*
 and_then speak-PST-DU=NMLZ.NSG speak-INF=TOP
 ‘And then they talked, at least?’ (bride and groom) [36_cvs_06.289]
- d. *khumdu=go khumdu, khatningo haη=ha*
 tasty=TOP tasty, but spicy=NMLZ.NC
 ‘It is tasty, but spicy.’

The topic particle is also part of the lexicalized adversative clause-initial connective *khatningo/ηkhatningo* ‘but’, which is historically a combination of a temporal adverb meaning ‘at this/that time’ and the topic marker.

17.1.2 The contrastive topic particle =*chen* (from Nepali)

In addition to the Yakkha topic marker =*ko*, the particle =*chen* (with a freely alternating allomorph [cen]), a borrowed form of the Nepali particle *cāhī*, can be employed (see Chapter 3.3 for the phonological changes). It has a stronger reading, marking contrastive topics in contexts where the speaker switches the topic or singles out one constituent (about which an assertion is made) against other constituents, as shown in (5a). In (5b), the protagonists of the story are marked by =*chen*, because the preceding content was about the people who chased them away. In contrast to =*ko*, =*chen* is restricted to constituents of clauses; it is not found on adverbial clauses.

- (5) a. *imin lak-m=ha baṇniṇ, ka=chen na*
 how dance-INF=NMLZ.NSG about 1SG=TOP this
doku=hoṇ=be u-me-ṇ, [...] nniṇda lakt-a-ni
 basket=INSIDE=LOC enter-NPST-1SG [...] 2PL dance-IMP-PL
 ‘As for how to dance, I will climb into this basket, [...] and you (plural)
 will dance.’ [14_nrr_02.28-9]
- b. *nhaṇ khaci lalubaṇ=nun phalubaṇ=chen khali punḍa=e*
 and_then these Lalubang=COM Phalubang=TOP only forest=LOC
khe?-m=ha
 go-INF[DEONT]=NMLZ.NSG
 ‘And then, those (guys) Lalubang and Phalubang only had the option
 to go to the forest.’ [22_nrr_05.045]

17.1.3 The quotative and textual topic particle *baṇniṇ*

This particle marks the question or topic that a broader section of discourse is about (see (6) for examples). The particle constitutes a stress domain by itself. The voiced initial could be a reflex of its formerly bound nature. Yakkha also has a complementizer *baṇna*, embedding clauses to nouns, sometimes also translating as ‘so-called’. Although the origin of *baṇ* is not clear, it looks as if a root of an utterance predicate has been nominalized to yield *baṇna*, and the cotemporal adverbial clause linkage marker *=niṇ* (see Chapter 14.12) has been added to the same root to yield *baṇniṇ*. In fact, in (6c) the particle has the function of marking direct speech, in much the same function like *bhoṇ* in purpose clauses and utterance predicates (see Chapters 14.9 and 15.2.2). In clauses with *bhoṇ* as a quotative marker, the subject of the main clause and the source of the utterance are coreferential. This is not the case for speech marked by *baṇniṇ*, as (6c) clearly shows. This example also shows that it is possible for the topic marker *=ko* to attach to *baṇniṇ*.

- (6) a. *nna ceṇ wai?=na=ṇa haku=ca kaniṇ*
 that[NOM] upright be[3SG]=NMLZ.SG=ERG now=ADD 1PL[NOM]
i mi?=m=ha baṇniṇ: (...)
 what think-INF[DEONT]=NMLZ.NSG about
 ‘As that (stele) stands upright, what we have to think even now, ...’
 [18_nrr_03.031]
- b. *liṇkha=ṇa=bu i=ya i=ya men-jok-ma*
 a_clan=ERG=HSY what=NMLZ.NC what=NMLZ.NC NEG-do-INF[DEONT]
baṇniṇ:
 about

‘As for what things the Linkha clan is not allowed to do, (...)’

[11_nrr_01.022]

- c. *manɕwa=le apt-u banɲiŋ=go i=ha=le*
 water=CTR bring-IMP QUOT=TOP what=NMLZ.NC=CTR
kheps-uks-u=ha?
 hear-PRF-3.P=NMLZ.NC
 ‘When we told her to fetch water, what the heck did she understand?’
 [42_leg_10.045]

17.2 Focus and emphasis

17.2.1 The restrictive focus particle =se

Restrictive focus is expressed by the particle =se. It is attached to the constituent it focusses on. A sentence with a constituent being focussed by the restrictive marker expresses that out of a given set, only this constituent fulfills the necessary condition for the proposition to be true. The restrictive focus marker thus has a semantic impact on the sentence, and does not merely add emphasis (see also (König 1993)).

- (7) a. *ka=go na mamu hen=se nis-u-ŋ=na*
 1SG=TOP this girl today=RESTR know-3.P[PST]-1SG.A=NMLZ.SG
 ‘But I saw this girl only today!’
 b. *hoŋkhiŋ=se*
 that_much=RESTR
 ‘That much only.’ [11_nrr_01.42]
 c. *yakkhaba=ga=se cekt-uks-u-m*
 Yakkha_person=GEN=RESTR speak-PRF-3.P[PST]-1PL.A
 ‘We have only talked in the language of the Yakkha people.’
 [36_cvs_06.609]

The restrictive focus marker can also be found on adverbial clauses (see (8a)), and also inside adverbial clauses, as the focus domain generally extends into subordinate clauses in Yakkha (see (8b)).

- (8) a. *sumphak phophop n-jog-uks-u=hoŋ=se camyoŋba*
 leaf upside_down NEG-do-PRF-3.P=SEQ=RESTR food
m-by-uks-u-ci
 3PL.A-give-PRF-3.P[PST]-3NSG.P

‘They gave the food to them only after turning the leaf-plates upside-down.’

- b. *nna mΛndata=se m-bi-wa-ci=nun*
 that marriage_custom=RESTR 3PL.A-give-NPST-3NSG.P=COM.CL
samma cahĩ, [...]
 until TOP
 ‘And as long as only the Mandata is given, ... (the wife does not belong to the husband’s side).’ [26_tra_02.007]

The marker =se is also found in a construction that expresses very urgent requests or imperatives. In such constructions, an infinitival form, marked by the restrictive focus particle, precedes the inflected verb, as shown in (9).

- (9) *oe chinɖaŋ oe=maŋ, nda yep-ma=se yeb-a-sy-a!*
 ADDR pillar ADDR=EMPH 2SG stand-INF=RESTR stand-IMP-MDDL-IMP
 ‘Oh, pillar, oh, if you only stood upright!’ [27_nrr_06.023]

17.2.2 The additive focus particle =ca

Additive focus is marked by the clitic =ca.² This marker expresses that content is added to some presupposed or previously activated content, or that some participant is included to the presupposed set of participants, as illustrated by (10). The marker attaches to constituents of any type, also to adverbial clauses, as will be shown below.

- (10) a. *nda=nun ka=ca khe-me-ŋ=na.*
 2SG=COM 1SG=ADD go-NPST-1SG=NMLZ.SG
 ‘I will also go with you.’
 b. *kaniŋ=ca yakkha siŋan.*
 1PL=ADD Yakkha COP.1PL.EXCL
 ‘We are also Yakkha people.’ [39_nrr_08.08]
 c. *encho=ca ta-ya-ma=ga=na*
 some_time_ago=ADD come-PST-2=NMLZ.SG
 ‘You have come before, too.’ [28_cvs_04.164]

The additive focus particle may also be attached to question words, yielding pro-forms that include all conceivable referents and thus have an exhaustive or ‘free-choice’³ reading ‘any’ or ‘ever’, as in (11). In this function, the additive focus par-

²In related languages, the cognate of this marker has aspirated /ch/ initially (e.g. in Bantawa and Belhare, Doornenbal (2009), Bickel (2003)).

³See König (1993: 980).

ticle is often combined with the sequential clause linkage marker =*hoŋ* (see (11b) and (c) and next paragraph).

- (11) a. *hetna=ca tihar ta-me?=niŋa, na uŋci=ga*
 which=ADD a_hindu_festival come[3SG]-NPST=CTMP this 3NSG=GEN
yad=be kha?la, nniŋda lakt-a-ni.
 remembrance=LOC like_this 2PL dance-IMP-PL.IMP
 ‘Whichever Tihar day comes, dance like this, in memory of them (god-
 dess Sangdangrangma and her companions).’⁴
 [14_nrr_02.37]
- b. *na makhur=na caleppa hen imin=hoŋ=ca*
 this black=NMLZ.SG bread today how=SEQ=ADD
ca-ma=na.
 eat-INF[DEONT]=NMLZ.SG
 ‘This black bread has to be eaten today, by any means.’ [40_leg_08.056]
- c. *i=ya=hoŋ=ca cok-ma yas-wa-g=ha.*
 what=NMLZ.NC=SEQ=ADD do-INF be_able-NPST-2=NMLZ.NC
 ‘You can achieve anything.’ [01_leg_07.031]
- d. *i?beniŋ=ca*
 what_time=ADD
 ‘at any time’ [13_cvs_02.005]

Scalar notions, translatable with ‘even’, can also be marked by =*ca* (see the example in (12)), but constituents with a scalar reading are rare in the corpus. More frequently such notions are expressed in concessive clauses (see Chapter 14.11), marked by the related particle =*hoŋca*, a combination of sequential clause linkage marker and additive particle (see (12c)). In (12c) the scalar reading is combined with restrictive focus ‘even if only’.

- (12) a. *jammai, kha yamuŋ=ca, ghak heŋ-nhaŋ-ma.*
 all this beard=ADD all cut-V2.SEND-INF[DEONT]
 ‘All (hair), even this beard, one has to cut off all of it (while mourning).’ [29_cvs_05.058]
- b. *ucun=na yapmi=ca ucun n-nis-wa-m-nin.*
 nice=NMLZ.SG person=ADD nice NEG-see-NPST-1PL.A-3PL.NEG

⁴Narrative 14 is about a Yakkha goddess called *Saŋdaŋraŋma*, also called *Dokeni*. Tihar is the Hindu festival of the goddess Lakṣmi, celebrated in October or November, and the celebration coincides with or was transformed to a Yakkha celebration in the Yakkha cultural sphere. The Hindu goddess of fortune, wealth and prosperity *Lakṣmī* is identified with *Saŋdaŋraŋma*.

‘Even nice people will seem ugly to us (if we are forced to marry them).’ [36_cvs_06.330]

- c. *liŋkha=ga teʔmaŋa=se=hoŋca, ...*
 a_clan=GEN clan_sister=RESTR=SEQ=ADD
 ‘Even if it is only a Linkha sister (as opposed to a Linkha sister who will marry a Limbukhim guy), ...’ [37_nrr_07.095]

In a pattern that is common in the languages of South Asia (and possibly beyond), the additive focus marker is employed together with verbal negation to express exhaustive negation (i.e. to the greatest conceivable extent), which is often paraphrasable with English ‘any’. In this function, it is typically attached to interrogative words, as shown in (13).

- (13) a. *ka hetniŋ=ca m-man-diʔ-ŋa-n=na.*
 1SG when=ADD NEG-get_lost-V2.GIVE-1SG-NEG=NMLZ.SG
 ‘I would never get lost.’ [18_nrr_03.015]
- b. *hou, ka eko=ca m-pham-me-ŋ-ga-n!*
 EXCLA 1SG one=ADD NEG-help-NPST-1SG.P-2.A-NEG
i=na=le?
 what=NMLZ.SG=CTR
 ‘Man, you do not help me even with one (word, line); what is going on?’ (a complaint uttered while singing a song) [07_sng_01.16]

17.2.3 The emphatic particle =*pa* ~ =*ba*

The emphatic particle =*pa* is typically attached to the inflected verb or to other sentence-final elements, like the dislocated phrase in (14a). The function of this marker is to indicate that the hearer should be aware of the propositional content already, or to emphasize its truth, paraphrasable with German *doch*, or English *of course*. The particle is found on assertions (affirmative and negated), imperatives, hortatives and permissive questions, but never on content or truth-value questions (see (14)). In assertions, it occurs mutually exclusive with the nominalizers =*na* and =*ha* in sentence-final position. Its function seems similar to these nominalizers, except for its occurrence on imperatives and hortatives, and its absence on the above-mentioned question types (see the ungrammatical examples in (15)). Etymologically the particle might have developed from the nominalizer =*pa*.

- (14) a. *a-ppa=ηa* *et-u-ci=ba*,
 1SG.POSS-father=ERG apply[3SG.A;PST]-3.P-3NSG.P=EMPH
samundra=be=pa
 ocean=LOC=EMPH
 ‘My father used them (the fishing rods), in the ocean.’ [13_cvs_02.024]
- b. *nhe*, *uk=ka* *u-cya=ci* *mohan=ηa*
 here 3SG.POSS=GEN 3SG.POSS-child=NSG Mohan=ERG
hiη-ma=ci=ba.
 support-INF[DEONT]=NSG=EMPH
 ‘Here, her children, of course Mohan has to care for them.’
 [28_cvs_04.145]
- c. *kucuma=ηa* *co-i-ks-u=ha?* *khem=ba!*
 dog=ERG eat-COMPL-PRF-3.P=NMLZ.NC before=EMPH
 A: ‘Did the dog eat up?’ B: ‘Already before!’
- (15) a. **man=ba?*
 EXIST.NEG[3]=EMPH
 Intended: ‘There is none?’
- b. **khiη=ba?*
 this_much=EMPH
 Intended: ‘This much?’
- c. **he?na khy-a=ba?*
 where go[3SG]-PST=EMPH
 Intended: ‘Where did he go?’

Example (16) shows *=pa ~ =ba* in permissive questions. Here, it implies that the speaker expects a positive answer (see (16)). In imperatives, the marker is employed to make commands and requests more polite, in a fixed sequence of the focus marker *=i* (often realized as [e]) and *=ba* (see (17)).

- (16) a. *ca-η-so-η=ba?*
 eat[3.P]-1SG.A-V2.LOOK[3.P]-1SG.A[SBJV]=EMPH
 ‘May I try and eat it?’ [17_cvs_03.301]
- b. *na=be yuη-ma leη-me=pa?*
 this=LOC sit-INF be_alright[3SG]-NPST=EMPH
 ‘Is it allowed to sit here?’
- (17) a. *yokmet-a-η=eba*
 tell-IMP-1SG.P=EMPH
 ‘Please tell me about it.’ [19_pea_01.005]
- b. *co=eba*
 eat[IMP]=EMPH

‘Please eat it.’

The emphatic particle =*pa* also frequently combines with other particles. The particles =*le* and =*ba* are combined in a fixed expression that is shown in (18a). It can attach to the emphatic particle =*maŋ* and to the restrictive focus particle =*se* when it attaches to constituents in predicative function.

- (18) a. *i=na=le=ba*
 what=NMLZ.SG=CTR=EMPH
 ‘watchamacallit, what to say’
- b. *mi=na=maŋ=ba!*
 small=NMLZ.SG=EMPH=EMPH
 ‘It is so small!’ [36_cvs_06.225]
- c. *hen khin se=ppa*
 today this_much RESTR=EMPH
 ‘Today it is this much only.’

17.2.4 The emphatic particle =*i*

The emphatic particle =*i* is frequently found in assertions that emphasize the truth value of some propositional content (see (19)), usually following the clause-final nominalizers =*na* and =*ha* (see Chapter 13.3.3), but never attaching to clauses that are marked by =*pa*. The focus particle is most likely related to the phonologically unbound question marker *i*, that occurs in truth-value questions (see below).

- (19) a. *kha?la, eŋ=ga ce?ya=i chak=ha=i,*
 like_this 1PL.POSS=GEN language=EMPH difficult=NMLZ.NC=EMPH
chak=ha!
 difficult=NMLZ.NC
 ‘It is like this, our language is difficult, difficult.’ [36_cvs_06.544]
- b. *menna=i, paip cok-se khe-me-ŋ=na=i*
 COP.NEG=FOC, pipe do-SUP go-NPST-1SG=NMLZ.SG=EMPH
 ‘No, I will go to fix the pipe.’

This particle is also found in a negative construction with an infinitival form preceding the finite verb. The construction expresses exhaustive negation: ‘not at all’.

- (20) a. *phen-ma=i m-pheks-a-ma-n=na.*
 plough-INF=EMPH NEG-plough[3SG]-PST-PRF-NEG=NMLZ.SG
 ‘It is not ploughed at all.’ [06_cvs_01.081]

- b. *ka ni-ma=i n-nis-wa-ηa-n=na.*
 1SG[ERG] know-INF=EMPH NEG-know-NPST-1SG.A[3.P]-NEG=NMLZ.SG
 ‘I do not know (any songs) at all.’ [06_cvs_01.104]
- c. *ni-ma=i men-ni-ma=na yapmi=be?*
 know-INF=EMPH NEG-know-INF=NMLZ.SG person=LOC
 ‘(Getting married) to a person one does not know at all?’ [36_cvs_06.325]

17.2.5 The contrastive focus particle =*le*

The particle =*le* carries a strongly contrastive notion. It is functionally equal to the Nepali particle *po*, which indicates that some new information stands in a strong contrast to the expectations, or was not part of the presupposed knowledge (see (21a)). Thus, it expresses a certain amount of surprise on part of the speaker. The particle is often accompanied by the mirative *rahecha* ~ *raecha* (borrowed from Nepali), and the functions of both markers are indeed related. The particle is not restricted to marking contrastive information from the perspective of the speaker. In (21b), the assertion stands in contrast to the addressee’s expectations, as this assertion belongs to an argument about a particular patch of farming ground.

- (21) a. *are, he?ne khy-a-η=na=lai, ka? lambu=go*
 oh!? where go-PST-1SG=NMLZ.SG=EXCLA 1SG way=TOP
na?mo=le sa=na
 down_here=CTR COP.PST[3SG]=NMLZ.SG
 ‘Holy crackers, where did I go? The way was down here!’ [28_cvs_04.027]
- b. *na=go aniη=ga=le kham!*
 this=TOP 1PL.INCL.POSS=GEN=CTR ground
 ‘(But) this is our ground!’ [22_nrr_05.007]
- c. *ka=go a-sap=le thakt-wa-η=na*
 1SG=TOP 1SG.POSS-[STEM]=CTR like-NPST[3.P]-1SG.A=NMLZ.SG
 ‘But I like it (in contrast to the other people present).’

As one can see in the examples in (22), the marker also occurs in questions, marking the constituent that is focussed. The marker expresses that the speaker is particularly clueless about the possible answer, i.e. that nothing is presupposed. In (22a), the speaker mistook the image quality of the Pear Story film (Chafe 1980) for snow. In (22b), the protagonists of the narrative arrived in some unknown place after fleeing from their enemies.

- (22) a. *hiuŋ=le wai-sa=em i=le wai-sa=em?*
 show=CTR exist[3SG]-PST=ALT what=CTR exist[3SG]-PST=ALT
 ‘Was there snow, or what was it?’ [19_pea_01.004]
- b. *he?ne=le ta-i=ya m-mit-a-ma=hoŋ uŋci*
 where=CTR come-1PL=NMLZ.NSG 3PL-think-PST-PRF=SEQ 3NSG
m-maks-a-by-a-ma=ca
 3PL-be_surprised-PST-V2.GIVE-PST-PRF=ADD
 ‘They were surprised, wondering: Where in the world did we arrive?’
 [22_nrr_05.030]

17.2.6 The emphatic particle =*maŋ*

The particle =*maŋ* is another emphatic marker, as the examples in (23) illustrate. It attaches to constituents of any kind, whether arguments or adverbs or clause-initial conjunctions. It is paraphrasable with ‘just’ or ‘right’ in English, but its function is not fully understood yet.

- (23) a. *i cok-ma? yakkha ten=be kha?la=maŋ!*
 what do-INF Yakkha village=LOC like_this=EMPH
 ‘What to do? After all, it is just like this in a Yakkha village!’
- b. *nhaŋ=ŋa=maŋ ŋ-ikt-haks-u, ...*
 and_then=INS=EMPH 3PL.A-chase-V2.SEND-3.P[PST], ...
 ‘And right then, they chased him away, ...’ [18_nrr_03.011]
- c. *nna jeppa=maŋ eko mem-mu?-ni-ma=na len*
 that really=EMPH one NEG-forget-COMPL-INF=NMLZ.SG day
sa-ya.
 COP.PST[3SG]
 ‘That really was an unforgettable day.’ [41_leg_09.069]
- d. *ma, na=ci=ga niŋwa=maŋ om*
 mother sister=NSG=GEN mind=EMPH COP
 ‘Of course, it is just the concern/love of my mother and my sister.’⁵
 [42_leg_10.048,]

⁵Context: a child pondering about being scolded for doing dangerous things. This example is exceptional in not displaying the obligatory possessive marking that is usually found on kinship terms. The reason might be that both participants are highly topical in the narrative, and had been mentioned several times before.

17.3 Epistemic, evidential and mirative markers

The criterion for a marker to be classified as epistemic is that it expresses the commitment of the speaker to the reality of an event. Evidential markers, on the other hand, purely indicate the source of the information (Cornillie 2009). Yakkha distinguishes evidential and epistemic markers. Furthermore, the notion of mirativity has to be distinguished from both evidentiality and epistemic modality. It expresses the unexpected status of some information (DeLancey 1997).

17.3.1 The hearsay particle =*pu* ~ =*bu*

The hearsay particle conveys a purely evidential notion, namely that the source of the information is not the speaker but someone else. It is frequently found in narrations of legends and myths, as they are a prime example of hearsay knowledge. The particle mostly occurs sentence-finally; it usually attaches to the finite verb, but it can also attach to any other constituent (including adverbial clauses, see (24c)), also more than once per sentence (see (25b)). It marks both information with a generic source, as in narratives, where it is translatable as ‘people say so’ (see (24)), but also information with a definite source, as in (25).

- (24) a. *nam wandik=ŋa lom-me?=niŋa kam cok-ni-ma*
 sun tomorrow=INS come.out[3SG]-NPST=CTMP work do-COMPL-INF
sa=bu
 COP.PST=HSY
 ‘It is said that he had to have the work completed when the sun would rise on the next day.’ [11_nrr_01.007]
- b. *nna puŋdaraŋma=cen, eko maŋme*
 that forest_goddess=TOP one eagle
leks-a-ma=na=bu
 become[3SG]-PST-PRF=NMLZ.SG=HSY
 ‘That forest goddess, she became an eagle, it is said.’ [22_nrr_05.108]
- c. *u-milak khokt-a-by-a bhoŋ=bu, ŋkha*
 3SG.POSS-tail cut-SBJV[3SG]-V2.GIVE-SBJV COND=HSY that
desan-masan n-da-ya,
 scary_ghosts 3PL-come-SBJV
n-nis-wa-n-ci-n=ha=bu.
 NEG-see-NPST-NEG-3NSG.P-NEG=NMLZ.NSG=HSY
 ‘If one cuts their (the dogs’) tails, they do not see the scary ghosts coming, it is said.’ [28_cvs_04.213]

- (25) a. *lu, abo, hamro yakkha, eh, aniη=ga ce?ya=η=bu*
 INIT, now our Yakkha, oh, 1PL.EXCL=GEN matter=INS=HSY
chem lum-bi?-ma=na=lai
 song tell-V2.GIVE-INF=NMLZ.SG=EXCLA
 ‘Alright, in our Yakkha, oh [switching to Yakkha], now we have to
 sing a song in our language, she said.’ [06_cvs_01.102]
- b. *a-na=bu khe-me?na=bu,*
 1SG.POSS-sister=HSY go[3SG]-NPST=NMLZ.SG=HSY
 ‘My sister has to go, she (my sister) says.’ [36_cvs_06.558]

In (25a), the constituent that is marked by =*bu* is in focus. The speaker remembers that she was asked to sing a song in her language, and not in Nepali, and hence she puts the reportative marker on the focussed constituent *aniga ce?yan(a)* ‘in our language’.

Occasionally, the hearsay marker =*bu* is followed by an utterance predicate, as in (26). This is, however, not obligatory on complements of predicates that embed speech in Yakkha (cf. Chapter 15.2.2).

- (26) *hi?wa=ga hi?wa wait=na=bu η-gam-me*
 wind=GEN wind exist[NPST;3SG]=NMLZ.SG=HSY 3PL-say-NPST
 ‘They say that he only lives in the air.’ [21_nrr_04.052]

17.3.2 The probability particle *loppi*

This particle expresses that the speaker assesses the content of the proposition to be likely, but not an established fact, very much like the adverbs ‘maybe’, ‘probably’, ‘possibly’ in English. It generally comes sentence-finally. Etymologically it is a combination of a marker *lo*⁶ and the irrealis particle =*pi* (see below). Examples are provided in (27). This particle is also found in questions (see (27b)) and in counterfactual clauses (see Chapter 14.13).

- (27) a. *kathmandu=ko men=na loppi,*
 Kathmandu=TOP NEG.COP[3SG]=NMLZ.SG probably
men=na.
 NEG.COP[3SG]=NMLZ.SG
 ‘It was probably not in Kathmandu [pondering] - no.’ [36_cvs_06.311]
- b. *bappura isa=ga u-cya loppi?*
 poor_thing who=GEN 3SG.POSS-child probably

⁶Synchronically, it only exists as a clause linkage marker in Yakkha, see Chapter 14.14. In Belhare, there are a comitative marker *lok* and a focus marker (*k)olo* that could be related to Yakkha *lo* (Bickel 2003).

‘Poor thing, whose child could it possibly be?’ [01_leg_07.292]

17.3.3 The irrealis particle =*pi* ~ =*bi*

The marker =*pi* (realized as [bi] after nasals and after vowels) is found mostly on counterfactual conditional clauses, but also on hypothetical clauses. In counterfactual clauses, it attaches to the inflected verb of the main clause and to the clause linkage marker of the subordinate clause, either cotemporal =*nin(a)* or sequential =*hoŋ*. In all examples in (28), we actually have sequences of clause linkage marker, topic particle =*ko* and irrealis marker =*pi*. The verbs in counterfactual clauses are always marked for the Past Subjunctive (see Chapter 8.5).

- (28) a. *diana=ca piʔ-ma=hoŋ=go=bi*
 D.=ADD give-INF[DEONT]=SEQ=TOP=IRR
cond-a-sy-a=bi=ba! *khatningo man-nin!*
 be_happy[3SG]-SBJV-MDDL-SBJV=IRR=EMPH but NEG.COP-3PL
 ‘We would have had to give them (fish) to Diana, too, she would have been happy! But there aren’t any.’ [13_cvs_02.056]
- b. *nnin=ga ten a-sap*
 2PL.POSS=GEN village 1SG.POSS-[STEM]
n-thakt-u-ŋ=nin=go=bi, *ka*
 NEG-like-3.P-1SG.A[SBJV]=CTMP=TOP=IRR 1SG
n-da-ya-ŋa-n=bi.
 NEG-come-SBJV-1SG-NEG=IRR
 ‘If I had not liked your village, I would not have come.’
- c. *ŋ-gind-a-by-a-masa-n=nin=go=bi* *ikhin*
 NEG-rot-SBJV-V2.GIVE-SBJV-PST.PRF-NEG=CTMP=TOP=IRR how_many
n-leks-a=bi!
 3PL-become-SBJV=IRR
 ‘If they (the apples) were not rotten, how many would we have!’

The particle =*pi* does not only occur on counterfactual clauses. It can also mark clauses referring to hypothetical situations, where it expresses the speaker’s assessment about the unlikelihood of an event. In example (29), the hypothetical situation that it will rain stands in opposition to the more likely, but also yet unrealized scenario of a hail storm, as judged by the speaker. In this example, the particle expresses the speaker’s assessment of the likelihood of an event; the speaker is 99% sure that it will hail and, thus, uses a counterfactual clause for the proposition that contains the event of raining.

- (29) *wasik=se ta-ya=hon=go=bi, ucun leks-a*
 rain=RESTR come[3SG]-SBJV=SEQ=TOP=IRR nice become[3SG]-SBJV
sa=bi, khatningo phom ta-me?=na loppi
 COP.SBJV=IRR but hail come[3SG]-NPST=NMLZ.SG probably
 ‘If it just rained, it would have been nice, but it there will probably be hail.’

The interaction between the irrealis marker and the clause linkage markers it attaches to is nicely illustrated by the following clausal minimal pair of hypothetical and counterfactual information in (30). Both sentences are inflected for the Past Subjunctive (which is in many forms homophonous with the past tense), but the clause linkage marker *=niŋ* in (30a) establishes a simultaneous relation between the clauses, while *=hon* (30b) establishes a sequential relation, indicating that the event must have occurred prior to the main clause, and thereby implying that it has not been realized.

- (30) a. *makalu nis-u-ŋ=niŋ=go=bi*
 Makalu see-3.P-1SG.A[SBJV]=CTMP=TOP=IRR
cond-a-sy-a-ŋ=bi
 be_happy-SBJV-MDDL-SBJV-1SG=IRR
 ‘If I could see Mt. Makalu, I would be happy.’
 b. *makalu nis-u-ŋ=hon=go=bi*
 Makalu see-3.P-1SG.A[SBJV]=SEQ=TOP=IRR
cond-a-sy-a-ŋ=bi
 be_happy-SBJV-MDDL-SBJV-1SG=IRR
 ‘If I had seen Mt. Makalu, I would have been happy.’

17.3.4 The mirative particle *rahecha* (from Nepali)

The Nepali mirative *rahecha* ~ *raicha*,⁷ was borrowed into Yakkha, and is used as a sentence-final marker of surprise about the propositional content, for instance when the speaker shares newly discovered information. In (31a), the speaker discovers that something must be wrong with the water pipe. In (31b) the speaker remembers something that she had not been aware of at first, only after someone reminded her.

- (31) a. *maŋcwa mi=na rahecha*
 water small=NMLZ.SG MIR
 ‘The water got less.’ [13_cvs_02.071]

⁷Historically it is a perfective form of the verb *rahanu* ‘to remain’.

- b. *ka ηkhaʔla bhoŋ tutunnhe bhauju=ghe*
 1SG like_that COND up_there sister-in-law=LOC
wa-ya-masa-η=na raecha, tunnhe=ba.
 exist-PST-PST.PRF-1SG=NMLZ.SG MIR up_there=EMPH
 ‘If it is like that, I had been uphill, at my sister-in-law’s place, I see,
 uphill.’ [36_cvs_06.399]

Mirativity in Yakkha is not restricted to surprise at the time of speaking, and it does not just indicate the speaker’s surprise. The mirative particle is frequently found in narratives, where the notion of unexpectedness either relates to some point in the time line of the story or to the hearer’s state of mind, as the one who tells the story can rarely be surprised of what he tells himself. The function or the mirative marker in narratives is to draw the attention of the hearer to the plot, rather than to signal surprise. Further examples from narratives are provided in (32). In (32c), the speaker reports about the events she saw in the Pear Story film (Chafe 1980).

- (32) a. *cokcoki-netham=be, eko maɖa otemma kham*
 star-bed=LOC one big plain ground
wait=na rahecha
 exist[3SG;NPST]=NMLZ.SG MIR
 ‘In the place called Bed of Stars, there is a huge plain area!’
 [37_nrr_07.049]
- b. *pak=na baŋna mi=na phalubaŋ, na huture*
 younger=NMLZ.SG called small=NMLZ.SG Phalubang this a_clan
sa-ma raecha.
 COP.PST-PRF MIR
 ‘The younger one, the smaller one, Phalubhang, he was a Huture.’
 [22_nrr_05.074]
- c. *khus-het-u=ha raicha.*
 steal-V2.CARRY.OFF-3.P[PST]=NMLZ.NSG MIR
 ‘He stole them and carried them off!’ [20_pea_02.015]

As the examples above have shown, the mirative prefers nominalized sentences as hosts (see Chapter 13.3.3). Another marker often found together with the mirative is the focus marker *=le* (see above) that signals contrast to presupposed content, or the absence of presupposed content.

17.4 Exclamatives

17.4.1 The exclamative particle *lai*

The function of the sentence-level particle *lai* (always in sentence-final position) is to add a certain vigor and force to assertions and exclamations (see (33)), to rhetorical questions as in (34a), and to deontic statements, as in (34b). It can in most cases be paraphrased with the Nepali particle *ni*, or with *just* and *of course* in English. It bears own stress, but it can also be cliticized in fast speech.

- (33) a. *ikhiṇ chi?na yapmi lai!*
 how_much greedy=NMLZ.SG person EXCLA
 ‘What a greedy person!’
 b. *om lai!*
 COP EMPH
 ‘Yes, of course!’
 c. *koi kha?la lai!*
 some like_this EXCLA
 ‘Some are just like this!’ [13_cvs_02.10]
- (34) a. A: *hetne wei-ka=na?* - B: *paṇ=be lai. tu?khi*
 A: where live[NPST]-2=NMLZ.SG - B: house=LOC EXCLA trouble
ca=se i khe?-ma lai?
 eat-SUP what go=INF EXCLA
 ‘A: Where do you live? - B: Just at home. Why should I go to suffer (in a marriage)?!’
 b. *n-da-ci bhoṇ=go im-m=ha=ci*
 3PL.A-bring-3NSG.P[SBJV] COND=TOP buy-INF[DEONT]=NMLZ.NSG=NSG
lai, ca-m=ha=ci!
 EXCLA eat-INF[DEONT]=NMLZ.NSG=NSG
 ‘If they bring some (fish), we would definitely have to buy and eat them!’ [13_cvs_02.056]

17.4.2 The exclamative particle *=?lo*

The particle *=?lo* is used frequently in colloquial speech, signalling a certain lack of patience on the side of the speaker, and possibly also a frustrative notion. It occurs in assertions, imperatives, and questions alike. The marker is always bound, attaching to the sentence-final constituent, which is often another discourse particle, such as *=ha* (see Chapter 13.3.3), emphatic *=ba* or contrastive *=le* (see (35)). When *=?lo* attaches to other particles, the resulting units become independent

words regarding stress (e.g. *haʔlo*, *baʔlo*, *leʔlo/laʔlo*, always stressed on the first syllable), but not with regard to the voicing rule. The most commonly heard particle is *haʔlo* (see (35b)).

- (35) a. *i=ʔlo?*
 what=EXCLA
 ‘What (the heck)?’ (also used as a filler, like ‘watchamacallit’)
- b. *wa-ni haʔlo. n-da-me-n=na bhoŋ,*
 exist[3SG]-OPT EXCLA NEG-come[3SG]-NPST-NEG=NMLZ.SG COND
n-da-nin-ni haʔlo!
 NEG-come[3SG]-NEG-OPT EXCLA
 ‘It is alright! If it (the electricity) does not come, may it not come!’
- c. *pi-haks-a baʔlo!*
 give-V2.SEND-PST[3A;1.P] EXCLA
 ‘They just gave me away in marriage(, so what)!?’ [06_cvs_01.042]
- d. *pi-m-ci-m baʔlo, ŋ-ga-ya-ma=hon*
 give-1PL.A-3NSG.P-1PL.A[SBJV] EXCLA 3PL-say-PST-PRF=SEQ
 ‘Then let us give it to them eventually, they said, ...’ [22_nrr_05.131]
- e. *ta-met-u-ŋ baʔlo! ka=go jokor*
 come-CAUS-3.P[PST]-1SG.A EXCLA 1SG=TOP self-deciding_person
leʔlo.
 EXCLA
 ‘Of course I brought her (the second wife)! I can decide for myself!’
 [06_cvs_01.077]

There is a dialectal variety *=kho* of *=ʔlo*, found for instance in the dialect spoken in Ankhinbhuin village (see (36)).

- (36) *hetnaŋ tae-ka=na lai kho?*
 where_from come[NPST]-2=NMLZ.SG EMPH EXCLA
 ‘Where on earth did you come from?’

As (37) shows, the complex exclamative particles are also found in combination with the mirative.

- (37) *n-so-ks-u-n=na rahecha baʔlo*
 NEG-see-PRF-3.P-NEG=NMLZ.SG MIR EXCLA
 ‘Oh, he has not seen it!’ [34_pea_04.039]

17.4.3 The exclamative *hau* ~ =(a)u

Another exclamative particle is *hau*. It is generally found at the end of a sentence, turning assertions into exclamations (see (38)). Judging from the available examples, it also carries a mirative notion, expressing that the speaker is emotionally involved by making a discovery. It generally bears its own stress, but it can also occur cliticized, thus reduced to mere [au] or even just [u].

Occasionally, the particle is also found at the beginning of sentences, to draw the attention of the hearer to the propositional content, for instance when the topic is changed (39a), or when an exciting discovery has been made, as in (39b).

- (38) a. *sal=go mund-i-η=na=i hau!*
 year=TOP forget-COMPL-1SG.A=NMLZ.SG=EMPH EXCLA
 'I just forgot the year (of my birth), ha!' [06_cvs_01.034]
- b. *tan̄khen̄ ka-ya=na hau!*
 sky call[3SG]-PST=NMLZ.SG EXCLA
 'It thundered!' [13_cvs_02.062]
- c. *mun-nhe sombare daju=ge η-wai?=ya-ci=bu*
 down_here Sombar brother=LOC 3PL-exist=NMLZ.NSG=NSG=HSY
hau, jeppa!
 EXCLA really
 'Down here at brother Sombar's house they have them (fish for sale),
 I have heard, really!' [13_cvs_02.057]
- (39) a. *hau, salle=be he?ne wei-ka=na?*
 EXCLA Salle=LOC where exist-2=NMLZ.SG
 'Hey, where in Salle do you live?' [06_cvs_01.090]
- b. *hau, kha=go, en̄=ga yapmi lo?a=ci=ca*
 EXCLA these=TOP 1PL.INCL.POSS=GEN person like=NSG=ADD
 'Really, they are like our people, too!' [22_nrr_05.044]

17.5 Further particles

17.5.1 The alternative particle =em

If the speaker relates two alternative propositional contents, two clauses are juxtaposed and equally marked by the particle =em, as shown in (40). The marker may be fused with the preceding material, e.g. with =na to [nem] (see (40c)) or with =le to [lem] (see (41a)).

- (40) a. *lag=ha=em lim=ha=em?*
 salty=NMLZ.NC=ALT sweet=NMLZ.NC=ALT
 ‘Is it (the tea) salty or sweet?’
- b. *hetniŋ hetniŋ om=em men=em*
 when when COP=ALT COP.NEG=ALT
mit-wa-m=ha.
 think-NPST[3.P]-1PL.A=NMLZ.NC
 ‘Sometimes we think: is it true or not?’
- c. *khumdu=n=em ŋkhumdi=n=em?*
 tasty=NMLZ.SG=ALT not_tasty=NMLZ.SG=ALT
 ‘Is it tasty or not?’ [36_cvs_06.244]
- d. *cek-met-u-m-ci-m-ga=m,*
 talk-CAUS-3.P[PST]-2PL.A-3NSG.P-2PL.A-2=ALT
n-jek-met-u-m-ci-m-ga-n=ha=m?
 NEG-talk-CAUS-3.P[PST]-2PL.A-3NSG.P-2PL.A-2-NEG=NMLZ.NSG=ALT
 ‘Did you make them (prospective bride and groom) talk or not?’ [36_cvs_06.323]

The particle is thus not only found in alternation questions; it can also express uncertainty, or lack of knowledge (see (41)).

- (41) a. *na=le=m, lambu, he?ne lambu? na!*
 this=CTR=ALT way where way this
 ‘Is this the road, where is the road? This one!’ [36_cvs_06.216]
- b. *i lu?-ni-me=he=m?*
 what tell-COMPL-NPST=NMLZ.NC=ALT
 ‘What will he possibly tell (us)?’ [36_cvs_06.343]
- c. *dharan=be waisa-ci-ga=em, hetne waisa-ci-ga ha?lo?*
 Dharan=LOC COP.PST-DU-2=ALT where COP.PST-DU-2 EXCLA
 ‘Or were you in Dharan; where were you, then?’ [36_cvs_06.315]

17.5.2 The question particle *i*

The question particle *i* marks truth-value questions, as in (42). In most cases, the clause it attaches to is nominalized by *=na* or *=ha*. The marker may carry its own stress, but it also occurs phonologically bound, the alternation probably just being conditioned by fast speech. If it occurs independently, a glottal stop is prothesized, as it typically is in vowel-initial words in Yakkha. The marker is most likely etymologically related to the (bound) emphatic marker *=i* that has been described above.

- (42) a. *raksi=ŋa sis-a-ga=na=i?*
 liquor=ERG kill[3SG.A]-PST-2.P=NMLZ.SG=Q
 ‘Are you drunk?’
- b. *ka i?*
 1SG Q
 ‘I?’
- c. *yakthu i?*
 enough Q
 ‘Did you have enough?’ [36_cvs_06.248]
- d. *nis-u-ga=na=i?*
 know-3.P[PST]-2.A=NMLZ.SG=Q
 ‘Do you know it?’

17.5.3 The insistive particle (a)u

The insistive particle is found on imperatives and on hortatives, adding force and emphasis to these speech acts (see (43)).

- (43) a. *ah, so-se ab-a-ci, au?*
 yes look-SUP come-IMP-DU INSIST
 ‘Yes, please come to look (at the bride), will you?’ [36_cvs_06.416]
- b. *lu, haku=chen pog-i, au?*
 alright now=TOP raise-1PL[SBJV] INSIST
 ‘Alright, now let us get up, will we?’ [36_cvs_06.556]

Possibly related to this marker is a vocative that is occasionally found, as shown in (44).

- (44) *a-na=u!*
 1SG.POSS-eZ=voc
 ‘He, sister!’

17.6 Interjections

Yakkha has a closed class of interjections, such as *hoʔi*, *bhela* and *yakthu* (all meaning ‘Enough!’), *om* ‘yes’, *menna/manna* ‘no’ (identificational and existential, respectively), and *issan*, the latter pronounced with rising intonation. It stands for ‘I do not know’ or ‘I have no idea’, just like the Nepali interjection *khoi*. Examples are provided in (45). Interjections are usually employed as sentence replacement, but in Yakkha it is still possible additionally to express a topic, as in (45a). The

affirmative and the negative interjections also have copular function (see also Chapters 8.7 and 11.1.11). Interjections, like sentences, can host further discourse particles such as in (45d). In the Ankhinbhuin dialect, *om* has an alternant *ommi*.

- (45) a. *ka=ca ho?i.*
1SG=ADD enough
‘I also had enough.’
- b. *yakthu=i?*
enough=Q
‘Did you have enough?’
- c. *men=na, nna=maŋ!*
COP.NEG=NMLZ.SG that=EMPH
‘No, it is that one!’
- d. *he?ne khet-u ha?lo, issaŋ la?lo!*
where carry_off-3.P[PST] EXCLA IGN EXCLA
‘Where did he take it - I have no idea!’ [20_pea_02.031]
- e. *om=ba!*
yes=EMPH
‘Yes, of course!’

A particle *lu* (borrowed from Nepali) is found sentence-initially (see example (25a)), or replacing sentences. It is employed to initiate an action, both in commands and in hortatives.

There is no expression for *thank you* in Yakkha. Common greetings are *sewayo*, and *seme?nenna*, which is the verb ‘greet’ with 1>2 inflection, ‘I greet you’.

Geomorphic interjections, prompting the addressee to look in a particular direction (*tu* for ‘Look uphill!’, *mu* for ‘Look downhill!’ and *yu* for ‘Look over there!’) are treated in Chapter 7.3.

Appendix A: Texts

The owl and I

written narrative; author: Shantila Jimi (Kathmandu/Tumok)

- (1) *phopciba=nun ka*
owl=COM 1SG
The owl and I
- (2) *pyak encho ka miya sa-ya-η=ninā pyak*
very long_time_ago 1SG little COP.PST-PST-1SG=CTMP very
chocholaplap cok-khuba san.
mischievous do-NMLZ COP.PST.1SG
Long time ago, when I was little, I was very mischievous.
- (3) *i len=ga ce?ya om, aniη=ga yo tanηoca*
one day=gen matter COP 1PL.EXCL.POSS=GEN across Tangoca_field
we?=na lamdhan=be ka, a-ma=nun
be=NMLZ.SG field=LOC 1SG 1SG.POSS-mother=COM
a-na leks-i-η=hoη, phekme ok-se khe-i-η.
1SG.POSS-elder_sister be-1PL-EXCL=SEQ vetch dig_up-SUP go-1PL-EXCL
This is about one day, my mother, my elder sister and I went to dig our field to plant lentils, there at the Tangoca field.
- (4) *kaniη kondarik=ci=ca*
1PL[ERG] spade_with_long_handle=NSG=ADD
khet-u-m-ci-m-ηa=hoη lamdhan=be khe-i-η.
take_along-3.P-1PL.A-3NSG.P-1PL.A-EXCL=SEQ field=LOC go-1PL-EXCL
We also took some spades with us and went to the field.
- (5) *nna lamdhan paη=bhan ta-ma manpha mandu*
that field house=ABL come-INF much far
sa-ya.
COP.PST-PST[3SG]
The field was quite far from our house.

- (6) *kaniŋ lamdhaŋ=be tas-u-m-ŋa=hoŋ phekmē*
 1PL[ERG] field=LOC arrive-3.P[PST]-1PL.A-EXCL=SEQ vetch
ok-saŋ khe-i=niŋa nam=ŋa tuknuŋ pho-ya.
 dig_up-SIM go-1PL=CTMP sun=ERG thoroughly [sun]burn-PST[3SG]
 When we arrived at the field and began to dig the weed, the sun burnt
 down on us mercilessly.
- (7) *ŋkha?niŋgo nna=be namci?maŋ he?ne=ca*
 but that=LOC shady where=ADD
m-ma-ya-n.
 NEG-COP.NEG -PST[3SG]-NEG
 But there was no shady place.
- (8) *ŋkha?niŋ kaniŋ whaŋma pirik-pirik leks-i-ŋ=hoŋ*
 that_time 1PL sweat running become-1PL-EXCL=SEQ
ibebe wepma si-i-ŋ.
 too_much thirst die-1PL -EXCL
 At that time we were covered in sweat, and we were very thirsty.
- (9) *nnakha=he maŋcwa=ca m-ma-ya-n.*
 that=LOC water=ADD NEG-COP.NEG-PST[3SG]-NEG
 There was no water, too.
- (10) *nna lamdhaŋ=ga yorok=ŋa eko mina hoŋma wa-ya.*
 that field=GEN across=INS one small river exist-PST[3SG]
 There was a small stream, a bit farther from the field.
- (11) *ka a-ma=ŋa kha?la ly-a-ŋ:*
 1SG 1SG.POSS-mother=ERG like_this say-PST-1SG.P
 Mother told me like this:
- (12) *phuama, hoŋma=be khy-a-g=hoŋ ci=ha maŋcwa*
 last-born_girl river=LOC go-SBJV-2=SEQ be_cold=NMLZ.NC water
apt-u au!
 bring-3.P[IMP] EXCLA
 Daughter, go to the stream and bring some cold water, would you?
- (13) *nhana ka=ca leks-a=ba ka-saŋ con-si-saŋ*
 and_then 1SG=ADD be-PST[3SG]=EMPH say-SIM be_happy-MDDL-SIM
u-yaŋdhaŋ eko a-muk=ŋa phok-phok mok-saŋ
 3SG.POSS-pot one 1SG.POSS-hand=INS drumming_sound beat-SIM

- khet-u-η=hon* *manɕwa* *tap-se* *honma=be*
 take_along-3.P[PST]-1SG.A=SEQ water take-SUP river=LOC
khy-a-η.
 go-PST-1SG
 And I responded: ‘Okay’, and went happily to the stream to fetch water,
 holding the pot and drumming it with one hand.
- (14) *kheʔ-ma-sy-a=nin* *lamdhan=ga* *miʔyan* *yorok=ηa*
 go-INF-AUX.PROG-PST=CTMP field=GEN little over_there=INS
tas-uks-a-η=na.
 arrive-PRF-PST[3.P]-1SG.A=NMLZ.SG
 On the way, I came to a place a little further away from the field.
- (15) *ηkhaʔnin* *eko* *khokpu=ga* *u-thap=ka*
 that_time one fig_tree=GEN 3SG.POSS-plant=GEN
u-sam=be *usa* *keks-a-masa=ha*
 3SG.POSS-lower_part=LOC fruit bear_fruit-PST[3SG]-PST.PRF =NMLZ.NSG
nis-u-η.
 see-3.P[PST]-1SG.A
 Then, I saw some fruits hanging from the lower branches of a fig tree.
- (16) *ka* *ηkha* *usa* *sem-ca-ma* *mit-u-η,* *ηkhon*
 1SG[ERG] those fruit pluck-V2.EAT-INF want-3.P[PST]-1SG.A thus
sem-saη *ekhumdu-ekhumdu* *co-het-u-η*.
 pluck-SIM delicious eat-V2.CARRY.OFF-3.P[PST]-1SG.A
 I wanted to pluck and eat the fruits, and so I did pluck them and ate them,
 enjoying their taste.
- (17) *usa* *sem-saη* *u-sam=be* *ca-ma-sy-a-η=nin*
 fruit pluck-SIM 3SG.POSS-under=LOC eat-INF-AUX.PROG-PST-1SG=CTMP
thapthum=be *u-thap=phaη* *a-muk=pe* *makhur=ha*
 cluelessness=LOC 3SG.POSS-plant=ABL 1SG.POSS-arm=LOC black=NMLZ.NC
waghui *loʔwa* *thwaη* *nam-khuba*
 chicken_droppings like smelling_awful_suddenly smell-NMLZ
a-yuks-a.
 fall-V2.COME.DOWN-PST[3SG]
 While I was eating under the tree, without me noticing, something black,
 smelling awfully like chicken droppings, dropped on my hand.
- (18) *i=ha* *a-yuks-a=ha* *bhon* *khaʔla*
 what=NMLZ.NC fall-V2.COME.DOWN-PST[3SG]=NMLZ.NC COMP like_this
siη=choη=be *so-η=nin* *a=go,* *phopciba=le* *weʔ=na!*
 tree=TOP=LOC look-1SG.A=CTMP=TOP owl=CONTR be[3SG]=NMLZ.SG

When I looked up into the tree what had fallen down, there is an owl!

- (19) *nna phopciba siliklik a-chik*
 that owl fuming_at_sth 1SG.POSS-anger
ekt-u-get-u.
 be_angry-3.P-V2.BRING.UP-3.P[PST]
 That owl made me really angry.
- (20) *lap-ma=ga bhon khokpu=ga sin=be than-ma=ga cog-a-η.*
 catch-INF=GEN PURP fig_tree=GEN tree=LOC climb-INF=GEN try-PST-1SG
 I tried to climb the tree to catch it.
- (21) *ηkha?ningo nna sin maqa sa-ya.*
 but that tree big COP.PST -PST[3SG]
 But the tree was huge.
- (22) *ηkhon=ca a-chik ekt-a=na belak=ηa*
 thus=ADD 1SG.POSS-anger be_angry-PST[3SG]=NMLZ.SG time=INS
esap-esap than-ma yas-a-η.
 swiftly climb-INF be_able-PST-1SG
 Nevertheless, as I was so angry that I managed to climb up.
- (23) *to than-a-by-a-η=hon kha?la so-η=niηa=go eko*
 up climb-PST-V2.GIVE-PST-1SG=SEQ like_this look-1SG.A=CTMP=TOP one
manpha=na hon nis-u-η.
 much=NMLZ.SG hole see-3.P[PST]-1SG.A
 When I had climbed up into the tree and looked, I saw a large hole.
- (24) *nhana phopciba lap-ma=go men=na, nna hon=be*
 and_then owl catch-INF=TOP NEG.COP=NMLZ.SG that hole=LOC
i=ha=le we?=na bhon so?-ma
 what=NMLZ.NC=CONTR be[3SG]=NMLZ.SG COMP look-INF
mit-het-u-η.
 want-V2.CARRY.OFF-3.P[PST]-1SG.A
 Then, I wanted to see what was in the hole, even more than I wanted to catch the owl.
- (25) *ηkhon nna hon=be so-η, nna=be=go*
 thus that hole=LOC look-[3.P;PST]-1SG.A, that=LOC=TOP
phopciba=ga hop=le waisa!
 owl=GEN nest=CONTR COP.PST[3]
 Then I looked into that hole, and there was an owl's nest!

- (26) *nna o-hop=pe=go hicci u-in=ci=ca η-wa-ya.*
 that 3SG.POSS-nest=LOC=TOP two 3SG.POSS-egg=NSG=ADD 3PL-be-PST
 In that nest there were two eggs, too.
- (27) *ηkha u-in=ci tan-se bhon a-muk*
 those 3SG.POSS-egg=NSG take_out-SUP PURP 1SG.POSS-hand
end-u-η=nina=go phopciba picingelek-picingelek
 insert-3.P[PST]-1SG.A=CTMP=TOP owl shrieking_loudly
ok-saη pes-a-ra-ya.
 peck-SIM fly-PST-V2.COME-PST[3SG]
 When I put my hand into the nest to take out the eggs, the owl flew towards
 me, screeching; it wanted to peck me.
- (28) *nhaya a-tukhuruk=pe pok=hon pok*
 and_then 1SG.POSS-head=LOC pecking_sound=SEQ pecking_sound
og-a-η.
 peck-PST-1SG.P
 Then it began to peck me on my head.
- (29) *ka tuknuη kisit-a-η=hon mo uη-ma=ga*
 1SG thoroughly be_afraid-PST-1SG=SEQ down come_down-INF=GEN
cog-a-η=nina=go a-laη=ηa tu-η=na
 try-PST-1SG=CTMP=TOP 1SG.POSS-foot=INS step_on-1SG.A[3.P;PST]=NMLZ.SG
siη=ga whak tek eg-a.
 tree=GEN branch breaking_sound break-PST[3SG]
 I was really afraid, and when I tried to get down from the tree, the branch
 on which I stood cracked.
- (30) *ka seη kaks-a-kh-eks-a-sa-η=na.*
 1SG falling_sound fall_down-PST-V2.GO-V2.CUT-PST-PST.PRF-1SG=NMLZ.SG
 I was about to fall down.
- (31) *heko=na whak=pe a-tek het-u=hon ka*
 other=NMLZ.SG branch=LOC 1SG.POSS-clothes hang-3.P[PST]=SEQ 1SG
haηcaηcaη chu-ya-η.
 dangling hang-PST-1SG
 My clothes got caught on another branch, and then I was dangling there.
- (32) *chu-ya-η=nina=ca phopciba=ηa ok-ma*
 hang-PST-1SG=CTMP=ADD owl=ERG peck-INF
n-lept-i-ya-ηa-n.
 NEG-give_up-COMPL[TR]-PST-1SG.P-NEG
 Even then, the owl would not stop pecking me.

- (33) *ak=ka a-tukhuruk=pe tuknun og-a-ŋ, heli=ca*
 1SG.POSS=GEN 1SG.POSS-head=LOC thoroughly peck-PST-1SG.P blood=ADD
lond-a, nħaŋa a-sa tuknun tug-a.
 come.out-PST[3SG], and_then 1SG.POSS-flesh thoroughly hurt-PST[3SG]
 It pecked me on my head, painfully; and I was bleeding, too, and it hurt so much.
- (34) *ka=ca phopciba iŋ-nħaŋ-ma=ga cog-a-ŋ,*
 1SG[ERG]=ADD owl chase-V2.SEND-INF=GEN do-PST[3.P]-1SG.A
ŋkħa?niŋgo ka i=ħa=ca a-niŋwa=be
 but 1SG what=NMLZ.NC=ADD 1SG.POSS-mind=LOC
ŋ-as-het-u-ŋa-n, a-lawa=ŋa
 NEG-understand-V2.CARRY.OFF-3.P[PST]-1SG.A-NEG, 1SG.POSS-soul=ERG
na?-ya-masa-ŋ.
 leave-V2.LEAVE-PST.PRF-1SG.P
 I also tried to scare off the owl, but then I do not know anything more, because I was frozen in shock.
- (35) *yo a-ma=nun a-na=ŋa=chen he?ne*
 over_there 1SG.POSS-mother=COM 1SG.POSS-elder_sister=ERG=TOP where
kħy-a=na bħoŋ ibebe yog-a-ma.
 go-PST[3SG]=NMLZ.SG comp everywhere look_for-PST-PRF
 My mother and my sister came looking where I had gone.
- (36) *ħoŋma poŋik yok-saŋ ta-ya-ma-ci=niŋ=go ka ħaŋcaŋcaŋ*
 river side search-SIM come-PST-PRF-DU=CTMP=TOP 1SG dangling
chu-ya-ŋ=na nis-a-ma.
 hang-PST-1SG=NMLZ.SG see-PST-PRF
 Looking for me at the riverside, they saw me hanging there.
- (37) *nħaŋa uŋci ħani ħani ta-ya-ma-ci=ħoŋ ka*
 and_then 3NSG quickly quickly come-PST-PRF-DU=SEQ 1SG
lab-a-ma.
 seize-PST-PRF
 So they came quickly and got me down.
- (38) *ŋkħiŋ belak=be phopciba=ca ok-saŋ hop=pe*
 that_much time=LOC owl=ADD shriek-SIM nest=LOC
pes-a-kħy-a-ma.
 fly-PST-V2.GO-PST[3SG]-PRF
 That time, the owl, too, flew away to its nest, screeching.

- (39) *hakhok=ηa ka cend-a-ky-a-η=hon*
 later=INS 1SG wake_up-PST-V2.COME.UP-PST-1SG=SEQ
so-η=nin̩a=go ka lun̩khwak chon̩=be
 look-1SG.A[3.P;PST]=CTMP=TOP 1SG stone on_top=LOC
ips-a-masa.
 sleep-PST-PST.PRF
 Later, when I woke up and looked around, I had been sleeping on a rock.
- (40) *nh̩aηa a-ma=nun̩ a-na=ηa ka*
 and_then 1SG.POSS-mother=COM 1SG.POSS-elder_sister=ERG 1SG
lab-a-masa.
 grab-PST-PST.PRF[1.P]
 Then, my mother and my sister grabbed me.
- (41) *man̩cwa=le apt-u baηnin̩=go i=ha=e*
 water=CONTR bring-3.P[IMP] talking_about=TOP what=NMLZ.NC=CONTR
kh̩eps-uks-u=ha?
 hear-PRF-3.P[PST]=NMLZ.NC
 When we told you to bring water, what did you hear?
- (42) *imin=hon̩ ollobak n-sy-a-ga-n=na!*
 how=SEQ almost NEG-die-PST-2-NEG=NMLZ.SG
 Somehow you did not die, but almost!
- (43) *lu-san̩ thind-a ka ebbebe kisit-a-η*
 say-SIM scold-PST[1.P] 1SG shivering_in_fear be_afraid-PST-1SG
khon̩ ghwa-ghwa hab-a-η.
 and_then bawling_sound cry-PST-1SG
 Saying so, they scolded me, and I was scared and bawled out loudly.
- (44) *ma, na=ci=ga nin̩wa=man̩ om.*
 mother elder_sister=NSG=GEN love=EMPH COP
 Of course my mother and my sister loved me.
- (45) *hakhok=ηa=go lem-san̩ kha?la lu-ya: picchanacha*
 later=INS=TOP persuade-SIM like_this say-PST[1.P] child
len̩-ma=hon̩ pyak chocholaplap men-jok-ma=ha.
 be-INF=SEQ very mischievous NEG-do-INF[DEONT]=NMLZ.NSG
 Later, convincing me, they said the following: ‘Children should not be naughty.’

- (46) *jeppa nna len ka a-ma=nun*
 true that day 1SG[ERG] 1SG.POSS-mother=COM
a-na=ga ce?ya
 1SG.POSS-elder_sister=GEN word
y-yen-u-ηa-n=na=ηa ollobak paro=be
 NEG-obey-3.P[PST]-1SG.A-NEG=NMLZ.SG=ERG.CL almost heaven=LOC
tas-u-η=na.
 reach-3.P[PST]-1SG.A=NMLZ.SG
 Really, that day, because I did not listen to my mother and sister, I had almost gone to heaven.
- (47) *a-ma=nun a-na=ηa*
 1SG.POSS-mother=COM 1SG.POSS-elder_sister=ERG
y-yog-a-n=niη=bi ka hensen
 NEG-look_for-PST[1.P]-NEG=CTMP=IRR 1SG nowadays
η-wa-ya-ηa-n=bi.
 NEG-be-PST-1SG-NEG=IRR
 If my mother and sister had not looked for me, I would not be here now.
- (48) *ηkha?niηgo ka con-si-san, ijan baηniη nna len*
 but 1SG be_happy-MDDL-SIM why about that day
bhaηto=maη ka he?niη=ca chocholaplap n-jog-a-ηa-n.
 from_on=EMPH 1SG when=ADD mischievous NEG-do-PST-1SG-NEG
 But I was happy, because from that day on, I never did mischievous things again.
- (49) *ka ha?niη tumha=ci=ga ce?ya=ca yem-ma*
 1SG COMPAR be_ripe=NMLZ.NSG=NSG=GEN word=ADD obey-INF
tarokt-u-η.
 start-3.P[PST]-1SG.A
 I began to be obedient to my elders.
- (50) *hensen=ca phopciba ka-ya=na kheps-wa-η ki*
 nowadays=ADD owl call-PST[3SG]=NMLZ.SG hear-NPST-1SG.A or
a-niηwa imin-imin coη-me?na.
 1SG.POSS-mind how-how do-NPST=NMLZ.SG
 Even now, when I hear the sound of an owl, I get a strange feeling.
- (51) *a-tukhuruk=pe og-a-η=na lo?wa*
 1SG.POSS-head=LOC peck-PST-1SG.P=NMLZ.SG like
en-si-me-η=na.
 perceive-MDDL-NPST-1SG=NMLZ.SG
 It feels like it is still pecking me on the head.

The Namthalungma rocks

oral narrative; speaker: Magman Jimi Linkha (Tumok)

- (1) *eko liŋkha=ga teʔma canuwa=be*
 one a_clan=gen clan_sister Canuwa=LOC
than-khy-a-ma=na rahecha.
 go_away_in_marriage-V2.GO-PST[3SG]-PRF=NMLZ.SG MIR
 One Linkha sister went away to Canuwa village in marriage.
- (2) *canuwa limbukhim=ci=ga tanme, liŋkha=ci=ga*
 Canuwa a_clan=NSG=GEN daughter-in-law, a_clan=NSG=GEN
teʔma bagdata nak-se mamliŋ
 clan_sister finalization_of_marriage ask_for-SUP Mamling
ta-ya-ma.
 come-PST[3SG]-PRF
 A daughter-in-law of the Limbukhims, a Linkha clan sister, came to Mam-
 ling to ask for the bagdata.
- (3) *mamliŋ=be o-cheba=ci, u-ppa,*
 Mamling=LOC 3SG.POSS-male_clan_relatives=NSG, 3SG.POSS-father,
u-pum=ci=ŋa, ghak, i=ha=we, ŋkha ghak
 3SG.POSS-grandfather=NSG=ERG, all, what=NMLZ.NC=LOC, that all
m-b-hyaks-uks-u.
 3PL.A-give-V2.SEND-PRF-3.P[PST]
 In Mamling, her father, the grandfathers, everybody, they gave away ev-
 erything to her.
- (4) *ŋkhaʔniŋgo nna mamu=ŋa: ka, na, eko=chen ka*
 but that girl=ERG 1SG[ERG] this one=TOP 1SG[ERG]
mit-u-ŋ=na,
 want-3.P[PST]-1SG.A=NMLZ.SG
 But that girl (said): 'I want one certain thing.'
- (5) *saman py-haks-a, na yubak py-haks-a*
 property give-V2.SEND-IMP[1.P] this thing give-V2.SEND-IMP[1.P]
lu-ks-u-ci
 tell-PRF-3.P[PST]-3NSG.P
 She told them: 'Please send these things with us.'
- (6) *nani, i=na yubak? n-chimd-uks-u.*
 child, what=NMLZ.SG thing 3PL.A-ask-PRF-3.P[PST]
 'Child, what thing?', they asked her.

- (7) *ka na eko lunxhwak=chen py-haks-a*
 1SG this one stone=TOP give-V2.SEND-IMP[1.P]
lu-ks-u-ci, mamu=ŋa.
 tell-PRF-3.P[PST]-3NSG.P girl=ERG
 ‘Send this one stone with me’, she told them, the girl.
- (8) *na=go nda khe?-ma n-yas-wa-ga-n, na*
 this=TOP 2SG[ERG] carry_off-INF NEG-be_able-NPST-2-NEG this
ŋ-khet-u-n.
 NEG-carry_off-3.P[IMP]-NEG
 ‘This one, you cannot carry it off, do not carry it off.’
- (9) *aniŋ=ga=ca na encho nhaŋto wen=ne,*
 1PL.EXCL.POSS=GEN=ADD this long_time_ago since exist[3SG]=NMLZ.SG,
na ŋ-khet-u-n n-lu-ks-u.
 this NEG-carry_off-3.P[IMP]-NEG 3PL.A-tell-PRF-3.P[PST]
 ‘It is ours since times immemorial, do not take it’, they told her.
- (10) *mamu=ga u-niŋwa ŋ-gaks-a-ma-n.*
 girl=GEN 3SG.POSS-mind NEG-fall_down-PST-PRF-NEG
 The girl did not give in.
- (11) *na tuknuŋ u-niŋwa tug-a-ma, ka na*
 this completely 3SG.POSS-mind have_pain-PST[3SG]-PRF 1SG this
meŋ-khe?-le, na lunxhwak meŋ-khe?-le
 NEG-carry_off-CVB, this stone NEG-carry_off-CVB
ŋ-khe-me-ŋa-n=na lu-ks-u-ci.
 3PL-go-NPST-1SG-NEG=NMLZ.SG tell-PRF-3.P[PST]-3NSG.P
 She was so sad; ‘I will not go without taking this stone with me’, she told them.
- (12) *nna, nani, nna lunxhwak=maŋ khet-wa-ga=na bhoŋ,*
 that child that stone=EMPH carry_off-NPST-2=NMLZ.SG COND,
se?ni=ŋa na?masek lam-ma.
 night_time=INS night_time walk-INF[DEONT]
 ‘This stone, child, if you take away this stone, you have to walk at night.’
- (13) *se?ni=ŋa se?namphok=pe, he?ne=ca me-yuŋ-ma=ga*
 night_time=INS whole_night=LOC, where=ADD NEG-put-INF=GEN
m-baŋ=be ta-met-i.
 2SG.POSS-house=LOC reach-CAUS-COMPL[IMP]
 ‘At night, the whole night, without putting it anywhere, deliver it at your home.’

- (14) *manhoŋ n-leŋ-me-n=na n-lu-ks-u.*
 otherwise NEG-become-NPST[3SG]-NEG=NMLZ.SG 3PL.A-tell-PRF-3.P[PST]
 ‘Otherwise, it will not be (yours)’, they told her.
- (15) *paŋ=be ta-meʔ-ma n-yas-u-ga-n bhoŋ,*
 house=LOC arrive-CAUS-INF NEG-be_able-3.P[SBJV]-2-NEG COND
aniŋ=ga=ca n-leŋ-me-n, ŋga=ca
 1PL.EXCL.POSS=GEN=ADD NEG-become-NPST[3SG]-NEG your=ADD
n-leŋ-me-n n-lu-ks-u=niŋa, na mamu
 NEG-become-NPST[3SG]-NEG 3PL.A-tell-PRF-3.P[PST]=CTMP this girl
i ka-ya-ma=na: ka
 what say-PST[3SG]-PRF=NMLZ.SG 1SG[ERG]
ta-met-wa-ŋ=na ka-ya-ma.
 bring-CAUS-NPST-1SG.A=NMLZ.SG say-PST[3SG]-PRF
 When they told her: ‘If you cannot deliver it home, it will neither be ours
 nor yours’, what this girl said, she said: ‘I will bring it home.’
- (16) *na mamliŋ baŋna luŋkhwak m-b-hyaks-uks-u.*
 this Mamling so-called stone 3PL.A-give-V2.SEND-PRF-3.P[PST]
 They gave that so-called Mamling stone to her.
- (17) *bagdata nak-se=ha a-kamnibak=ci=ŋa*
 finalization_of_marriage ask_for-SUP=NMLZ.NSG 1SG.POSS-friend=NSG=ERG
nnakha luŋkhwak=ha i=ha ghak ŋ-khu-ks-u.
 that stone=NMLZ.NC what=NMLZ.NC all 3PL.A-carry-PRF-3.P[PST]
 ‘My friends (who came) in order to ask for the Bagdata, they carry all that
 belongs to this stone.’
- (18) *eko=ŋa eko luŋkhwak, heko=na=ŋa eko luŋkhwak,*
 one=ERG one stone other=NMLZ.SG=ERG one stone
heko=na=ŋa eko luŋkhwak.
 other=NMLZ.SG=ERG one stone
 One (took) one stone, another one (took) one stone, another one (took) one
 stone.
- (19) *heko=ha=ci=ŋa i=ha i=ha*
 other=NMLZ.NSG=NSG=ERG what=NMLZ.NC what=NMLZ.NC
m-bi-ks-a, ŋkha ghak ŋ-kho-het-u.
 3PL.A-give-PST.PRF that all 3PL.A-carry-V2.CARRY.OFF-3.P[PST]
 They carried off everything that the others had given her.

- (20) *nhaja yo, mulgaun=be n-das-uks-u, coilikha=be,*
 and_then across Mulgaun=LOC 3PL.A-reach-PRF-3.P[PST] Coilikha=LOC
coilikha thaun=ko nam.
 Coilikha place=TOP name
 And then they arrived on the other side, in Mulgaun, in Coilikha, Coilikha
 is the name of the place.
- (21) *coilikha=be n-das-u=niṇa, nna mamu=ga*
 Coilikha=LOC 3PL.A-arrive-3.P[PST]=CTMP, that girl=GEN
o-phok tuk-ma tarokt-uks-u.
 3SG.POSS-stomach hurt-INF start-PRF-3.P[PST]
 When they arrived in Coilikha, that girl's stomach began to hurt.
- (22) *nna o-phok tug-a-ma=hoṇ, pakha*
 that 3SG.POSS-stomach hurt-PST[3SG]-PRF=SEQ, outside
yuṇ-a-ma.
 sit_down-PST[3SG]-PRF
 As her stomach hurt, she went to the toilet.
- (23) *pakha=ca yuṇ-a-ma.*
 outside=ADD sit_down-PST[3SG]-PRF
 She also went to the toilet.
- (24) *nna khatniṇ=ṇa, pakha=ca lom-ma cog-a-ma,*
 that this_time=INS, outside=ADD come_out-INF try-PST[3SG]-PRF,
u-hi lom-ma=ca cog-a-ma,
 3SG.POSS-stool come_out-INF=ADD try-PST[3SG]-PRF
 That time, she felt like vomiting and shitting.
- (25) *ṇkhatniṇgo n-lond-a-n.*
 but NEG-come_out-PST[3SG]-NEG
 But it did not come out.
- (26) *kus-uks-u, kus-uks-u, kus-u-lo=be*
 wait_for-PRF-3.P[PST], wait_for-prf-3.P[pst], wait_for-3.P[PST]-INT.CL=LOC
wa=ci ṇ-ga-ya-by-a-ma.
 chicken=NSG 3PL-speak-PST-V2.GIVE-PST-PRF
 She waited and waited, and while she waited, the cocks already crowed.
- (27) *wa=ci ṇ-ga-ya=hoṇ=go om leks-a-khy-a*
 chicken=NSG 3PL-speak-PST=SEQ=TOP bright become-PST-V2.GO-PST[3SG]
 As the cocks crowed, it had already dawned.

- (28) *ηkhiŋ-belak wa=ci, wa=ci η-ga-ya=nin̩a*
 that_much-time chicken=NSG chicken=NSG 3PL-speak-PST=CTMP
eko=ηa=cen sui lukt-u-get-uks-u, eko luŋkhwak
 one=ERG=TOP quickly run-3.P-V2.BRING.UP-PRF-3.P one stone
uthamalan̩, limbukhim=ηa.
 steeply_uphill a_clan=ERG
 At that time, while the cocks crowed, one ran up with the stone, steeply uphill, one Limbukhim guy.
- (29) *eko=na lukt-u-get-u=hoŋ to, okhyu,*
 one=NMLZ.SG run-3.P[PST]-V2.BRING.UP-3.P[PST]=SEQ up Okhyu
mulgaun=be ta-uks-u.
 Mulgaun=LOC bring-PRF-3.P[PST]
 As he ran up with one stone, he brought it there to Mulgaun, to Okhyu.
- (30) *na heko=ha=ci=ηa, na mo=na luŋkhwak,*
 this other=NMLZ.NSG=NSG=ERG this down=NMLZ.SG stone
heko=ha luŋkhwak n-yuks-u-sa-ci=ha.
 other=NMLZ.NSG stone 3PL.A-keep-3.P[PST]-PST.PRF-3NSG.P=NMLZ.NSG
 The others, the lower stones, they had put the other stones down there.
- (31) *ηkha them-ma n-jog-uks-u-ci, them-ma*
 those lift-INF 3PL.A-try-PRF-3.P[PST]-3NSG.P lift-INF
n-yas-uks-u-n-ci-nin.
 NEG-be_able-PRF-3.P[PST]-NEG-3NSG.P-3PL.NEG
 They tried to lift them up, but they could not lift them up.
- (32) *them-ma n-yas-u-n-ci-nin, nna=ga*
 lift-INF NEG-be_able-3.P[PST]-NEG-3NSG.P-3PL.NEG that=GEN
lenlen ips-a-m=ha, luŋkhwak.
 lying_horizontally sleep-PST[3SG]-PRF=NMLZ.NSG stone
 They could not lift them up, the stones were lying (sleeping) there.
- (33) *kha pok-ma n-yas-uks-u-n-ci-nin.*
 these wake_up-INF NEG-be_able-PRF-3.P[PST]-NEG-3NSG.P-3PL.NEG
 They could not wake them up.
- (34) *nna=be sum=ci luŋkhwak η-wa-ya-ci.*
 that=LOC three=NSG stone 3PL-exist-PST-3NSG.P
 There were three stones.

- (35) *eko lenlen, eko, ηkha sum=ci sum=ci,*
 one lying_horizontally one those three=NSG three=NSG
carpaŋe=ci.
 four-sided=NSG
 One was lying there hugely, those three, the four-sided stones.
- (36) *nnakha luŋkhwak=ci pok-ma*
 those stone=NSG wake_up-INF
n-yas-uks-u-n-ci-nin, ηkha?la uŋci yo
 NEG-be_able-PRF-3.P[PST]-NEG-3NSG.P-3PL.NEG, like_that 3NSG across
canuwa=be η-khy-a.
 Canuwa=LOC 3PL-go-PST
 They could not place those stones upright, and like that (i.e., without the stones), they went over there, to Canuwa.
- (37) *canuwa η-khy-a=hoŋ, heksaŋ i leks-a baŋniŋ, na,*
 Canuwa 3PL-go-PST=SEQ later what happen-PST[3SG] about this
jaba, na mamu=ηa luŋkhwak pok-ma
 when this girl=ERG stone wake_up-INF
n-yas-u-n, ηkhiŋ-belak=ηa na canuwa, canuwa
 NEG-be_able-3.P[PST]-NEG that_much-time=INS this Canuwa Canuwa
men=na, mulgaun, mulgaun=ga to, okhyu=be to
 NEG.COP=NMLZ.SG Mulgaun Mulgaun=GEN up Okhyu=LOC up
thunŋkha=be eko luŋkhwak wai?=na, dewan qhunga
 steep_slope=LOC one stone exist[3SG]=NMLZ.SG Dewan stone
baŋna.
 so-called
 As they had gone to Canuwa, about what happened later, when the girl could not place the stone upright, at that time, this, Canuwa, not Canuwa, Mulgaun, above Mulgaun, in Okhyu, in that steep place, there is one rock, called Dewan stone.
- (38) *nna dewan qhunga baŋna luŋkhwak sahro cancan*
 that Dewan stone so-called stone very high
sa-ma=na, pyak cancan, ikhiŋ cancan, nna
 COP.PST-PRF=NMLZ.SG much high how_much high that
cancan=na=bhaŋ so?-ma=niŋa, mo oŋemma, mades ghak
 high=NMLZ.SG=ABL look-INF=CTMP down plains plains all
ota=ha=bu.
 be_visible-PST[3SG]=NMLZ.NC=HSY

That Dewan stone was really high, it was very high, so high; when one looked down from this high place, the plains, the Tarai, everything was visible, they say.

- (39) *nnakha ghak ot-a-ma, mo, nna,*
 that all be_visible-PST[3SG]-PRF down that
saptakosi=ga u-lap=pe tori
 a_river_confluence=GEN 3SG.POSS-side=LOC mustard
phet-a=ha=ca ot=ha=bu, nna=bhanj.
 bloom-PST=NMLZ.NC=ADD be_visible=NMLZ.NC=HSY that=ABL
 All was visible, below, even the mustard blooming on the shores of the Saptakosi was visible, from there.

- (40) *nna mamu=ŋa, nna mamu=ŋa nna lunxhwak*
 that girl=ERG that girl=ERG that stone
khet-u=na din i leks-a-ma=na
 carry_off-3.P[PST]=NMLZ.SG day what happen-PST[3SG]-PRF=NMLZ.SG
banñin, haku heko=na taplik tum-si-me?=na
 about now other=NMLZ.SG story find-MDDL-NPST[3SG]=NMLZ.SG
nna=be.
 that=LOC
 As for what happened on the day when the girl took away the stone, another story can be found, inside that (story).

- (41) *na dewan qhunga l-wa=na, mulgaun=be?=na dewan*
 this Dewan stone call-NPST=NMLZ.SG Mulgaun=LOC=NMLZ.SG Dewan
qhunga, na cancan=na lunxhwak, uñ sadhai=ca,
 stone this high=NMLZ.SG stone 3SG always=ADD
i=na ŋ-gam-my-a, yaksigum, yaksigum
 what=NMLZ.SG 3PL-call-NPST=NMLZ.NC place_to_meet place_to_meet
khy-a=na=bu.
 go-PST[3SG]=NMLZ.SG=HSY
 They called that high rock the Dewan stone of Mulgaun; that high rock, it was always, what do they call it – Yaksigum – it always went to the Yaksigum.

- (42) *yaksigum he?ne khy-a=na banñin uñ*
 place_to_meet where go-PST[3SG]=NMLZ.SG about 3SG
cokcokinetham=be khy-a=na=bu
 a_mythical_place=LOC go-PST[3SG]=NMLZ.SG=HSY
 And about where it went, it went to the place called Bed of Stars, it is said.

- (43) *cokcokinetham=be, eko maḍa oḥemma kham wait=na*
a_mythical_place=LOC one big plains ground exist[3SG]=NMLZ.SG
rahecha!
MIR
In the Bed of Stars, there is a huge plain area!
- (44) *nna kham=be naʔmasek=ŋa uŋ yaksigum khy-a.*
that ground=loc evening_time=INS 3SG place_to_meet go-PST[3SG]
And at night he went to that place, to the Yaksigum.
- (45) *om me-leŋ-le las-a=hoŋ pheri to*
bright NEG-become-CVB return-PST[3SG]=SEQ again up
thithi em-diʔ-ma=bu
standing_upright stand-V2.GIVE-INF[DEONT]=HSY
Before sunrise, it had to return and stand upright again.
- (46) *nhaŋ wandik=ŋa=ca yaksigum khy-a, om*
and_then later=INS=ADD place_to_meet go-PST[3SG] bright
me-leŋ-le ap-ma=hoŋ thithi
NEG-become-CVB come.LEVEL-INF[DEONT]=SEQ standing_upright
em-diʔ-m=ha.
stand-V2.GIVE-INF[DEONT]=NMLZ.NC
The next day it went to the Yaksigum again; it had to come back and stand upright again before sunrise.
- (47) *yapmi=ci ni-ma haksan aghi thithi*
person=NSG see-INF COMPAR before standing_upright
em-diʔ-ma sa=na.
stand-V2.GIVE-INF[DEONT] COP.PST=NMLZ.SG
It had to stand upright before people would see it.
- (48) *ŋkhaʔniŋgo na mamliŋ=bhaŋ khy-a=na mamu jʌbʌ*
but this Mamling=ABL go-PST[3SG]=NMLZ.SG girl when
pakha yuŋ-a, pakha yuŋ-a=hoŋ uk=ka
outside sit-PST[3SG] outside sit_down-PST[3SG]=SEQ 3SG.POSS=GEN
o-phok tug-a, luŋkhwak them-ma
3SG.POSS-stomach hurt-PST[3SG] stone lift-INF
n-yas-u-n-ci-n.
NEG-be_able-3.P[PST]-NEG-3NSG.P-NEG
But the girl that had gone from Mamling, when she sat outside (to vomit and shit), as she sat outside, her stomach was aching, she could not lift up the stones.

Then, later, they reached the house on the other side.

- (57) *paŋ n-das-u, nhaŋ ŋ-wa-ya=hoŋ, heksaŋ i*
house 3PL.A-reach-3.P[PST] and_then 3PL-live-PST=SEQ later what
leks-a baŋniŋ na luŋkhwak mo puŋda=e ŋkha?la
happen-PST[3SG] about this stone down jungle=LOC like_that
wa-ya, ŋkha namthaluŋma=ci, u-maita=haŋ
exist-PST[3SG] those Namthalungma=NSG 3SG.POSS-natal_home=ABL
ŋ-khet-u=ci=ha luŋkhwak=ci, ŋkha,
3PL.A-carry_off-3.P[PST]-3NSG.P=NMLZ.NC stone=NSG those
ŋkha?la ŋ-wa-ya=niŋa uŋci-niŋwa tug-a-ma
in_that_way 3PL-live-PST=CTMP 3NSG.POSS-mind hurt-PST[3SG]-PRF
rahecha!

MIR

They reached the house, and as they were there, as for what happened later, this stone was down there in the jungle, those Namthalungma stones, the stones they had carried away from her maternal home, as they lived like that, they were sad!

- (58) *uŋci-niŋwa ŋkha luŋkhwak=ga u-niŋwa*
3NSG.POSS-mind those stone=GEN 3SG.POSS-mind
tug-a-ma=hoŋ, ten=be picha=ci o-phok=ŋa
hurt-PST[3SG]-PRF=SEQ village=LOC child=NSG 3SG.POSS-stomach=ERG
sa?-m=ha, ghau pok-ma, wha, wha
churn-INF=NMLZ.NC wound infest-INF septic_wound septic_wound
leŋ-ma=ha, nhaŋ koi koi sulemwalem
happen-INF=NMLZ.NC and_then some some head_hanging_down
leŋ-khe-khuba, mam=ha yapmi=ci=ga, u-niŋwa me?niŋ,
become-V2.GO-NMLZ big person=NSG=GEN 3SG.POSS-mind without
das men-da-ma=ga ŋ-wa-ya-ghond-a-ma.
mental_strength NEG-come-INF=GEN 3PL-live-PST-V2.ROAM-PST-PRF
As they were sad, as those stones were sad, the children in the village, their stomachs hurt, wounds appeared on them, then, some of them becoming like wilted flowers, the adults, too, they walked around without mental strength.

- (59) *na i leksa, m-mit-a-ma, yapmi=ci.*
this what happen-PST[3SG] 3PL-think-PST-PRF person=NSG
‘What happened to this place?’ the people thought.

- (60) *ηkha?niŋa ikhiŋ leks-a-by-a, wasik=ca*
 that_time how_much happen-PST-V2.GIVE-PST[3SG] rain=ADD
n-da-me-n=na.
 NEG-come-NPST[3SG]-NEG=NMLZ.SG
 And then, how many (bad things) happened, it does not rain, too.
- (61) *wasik n-da-me-n=niŋa nam phen-a=na*
 rain NEG-come-NPST[3SG]-NEG=CTMP sun shine-PST[3SG]=NMLZ.SG
phen-a=na, phen-a-nes-a=na.
 shine-PST[3SG]=NMLZ.SG, shine-PST-V2.LAY-PST[3SG]=NMLZ.SG
 It does not rain, the sun was shining and shining, it kept shining.
- (62) *wasik ta-ya-khy-a bhoŋ ghak i=ha*
 rain come-PST-V2.GO-PST[3SG] COND all what=NMLZ.NC
yaŋ-khe?-ma-gari, ghak yaŋ-het-i=nuŋ=ga
 flush-V2.TAKE.ALONG-INF-ADVLZ all flush-V2.CARRY.OFF-COMPL=COM=GEN
wasik ta-ya-ma.
 rain come-PST[3SG]-PRF
 And when it rained, it rained so much that everything was taken along by the water.
- (63) *na wasik=le, wasik ta-ya=na=ca la-ma*
 this rain=CONTR rain come-PST[3SG]=NMLZ.SG=ADD return-INF
n-nis-u-n, nam phen-a=na=ca ucun
 NEG-know-3.P[PST]-NEG sun shine-PST[3SG]=NMLZ.SG=ADD good
phen-a=na, phen-a=na phen-a=na
 shine-PST[3SG]=NMLZ.SG shine-PST[3SG]=NMLZ.SG shine-PST[3SG]=NMLZ.SG
leks-a, lan-si?-ma n-nis-u-n.
 happen-PST[3SG] return-MDDL-INF NEG-see-3.P[PST]-NEG
 This rain, it rained, and did not know how to stop, the sun was shining, it happened that it shone nicely, it did not know how to stop.
- (64) *haku i cogi η-ga-ya-ma nnakha mulgaun=be,*
 now what do-1PL[SBJV] 3PL-say-PST-PRF those Mulgaun=LOC
okhyu=be=ha yapmi=ci.
 Okhyu=LOC=NMLZ.NSG person=NSG
 Now what shall we do, said the people from Mulgaun, from Okhyu.
- (65) *ηkha?niŋa, eh, nna=go ha?lo namthaluŋma=be?-na*
 that_time oh that=TOP exclam Namthalungma=LOC=NMLZ.SG
luŋkhwak le?lo!
 stone CONTR.EMPH
 At that time, this, gee, it is the stone of Namthalung!

- (66) *namthalunma=beʔ=na lunxhwak nhe ket-a-ma eko.*
 Namthalung=LOC=NMLZ.SG stone here bring_up-PST[3SG]-PRF one
 One of the Namthalum stones was brought here!
- (67) *na eko=ŋa=go thend-u-get-uks-a=ba, nna, om*
 this one=ERG=TOP lift-3.P[PST]-V2.BRING.UP-PST.PRF=EMPH that bright
leks-a=niŋa,
 become-PST[3SG]=CTMP
 Someone had carried it up, while it was getting bright.
- (68) *wa ka-ya=na, ka-ya=na, thithi*
 chicken say-PST[3SG]=NMLZ.SG say-PST[3SG]=NMLZ.SG standing_upright
end-u-ghet-uks-u=na lunxhwak ceŋ
 insert-3.P[PST]-V2.TAKE.ALONG-PRF-3.P[PST]=NMLZ.SG stone upright
to ten=be waiʔ=na haku=ca.
 up village=LOC exist[3SG]=NMLZ.SG now=ADD
 The cocks crowed, and someone placed the stone there upright; it is there,
 up high in the village, even now.
- (69) *maɖa lunxhwak om.*
 big stone COP
 It is a big stone.
- (70) *nna ket-uks-u.*
 that bring_up-PRF-3.P[PST]
 He brought it up there.
- (71) *haku na=be laŋ=ci muk=ci wa-siŋ-kheʔ-ma=ci.*
 now this=LOC leg=NSG hand=NSG wash-V2.GO-INF[DEONT]=NSG
 Now, at this place, one has to go there having washed one's feet and hands.
- (72) *nhanɔ mo kheʔ-ma=hoŋ thak-m=ha=ci.*
 and_then down go-INF=SEQ worship-INF[DEONT]=NMLZ.NSG=NSG
 And then, after going down, one has to worship and pray.
- (73) *nna=ca isa=ŋa thak-ma=na baŋniŋ, liŋkha=ga*
 that=ADD who=ERG worship-INF[DEONT]=NMLZ.SG about a_clan=GEN
teʔma=ŋa thak-ma=na, ŋkhiŋ=ca
 clan_sister=ERG worship-INF[DEONT]=NMLZ.SG that_much=ADD
n-leks-a-n bhon, liŋkha=ga o-teʔma=ŋa,
 NEG-become-SBJV[3SG]-NEG COND a_clan=GEN 3SG.POSS-clan_sister=ERG
limbukhim-ga u-taŋmek leŋ-khuba=ŋa,
 a_clan=GEN 3SG.POSS-daughter-in-law become-NMLZ=ERG

Now about who has to do the worship, a Linkha clan sister has to do the worship, and if that much is not possible, a Linkha sister, a prospective Limbukhim daughter-in-law.

- (74) *ηkhiη=ca n-leks-a-n bhoη, liηkha=ga*
 that_much=ADD NEG-happen-SBJV[3SG]-NEG COND a_clan=GEN
te?ma=ηa=se=hoη=ca leη-me?=na,
 clan_sister=ERG=RESTR=SEQ=ADD be_alright-NPST[3SG]=NMLZ.SG
thaη-mēη-khe-le?=na=hoη=ca,
 go_away_in_marriage-NEG-go-CVB=NMLZ.SG=SEQ=ADD
 If that much is not possible, it is also alright if it is only a Linkha sister,
 even if she is not going to marry.
- (75) *thak-ma=na η-ga-ya-ma=hoη η-khy-a-ma.*
 worship-INF[DEONT]=NMLZ.SG 3PL-say-PST-PRF=SEQ 3PL-go-PST-PRF
 She has to do the worship, they said, and went (the people of the girl's
 maternal home).
- (76) *haku imin thak-ma=na η-ga-ya=nīηa,*
 now how worship-INF[DEONT]=NMLZ.SG 3PL-say-PST=CTMP
 As they said how to do the worship,
- (77) *liηkha=ga mamu=ηa, liηkha mamu=ηa thakt-uks-u.*
 a_clan=GEN girl=ERG a_clan girl=ERG worship-PRF-3.P[PST]
 a Linkha girl did the worship.
- (78) *tuknuη nam phen-a=nīηa kaniη=go cinuη=le*
 completely sun shine-PST[3SG]=CTMP 1PL=TOP cold=CONTR
cah-a=ba cog-i-η.
 need-NATIV=EMPH do-1PL[SBJV]-EXCL
 When the sun was shining so much, though we need cold climate.
- (79) *miyan tankhyan mopmop cok-t-a-by-a mi?yan*
 little sky a_little_cloudy do-BEN-IMP-V2.GIVE-IMP[1.P] little
cinuη cok-t-a-by-a, ka-saη cuwa wahe-saη,
 cold do-BEN-IMP-V2.GIVE-IMP[1.P] say-SIM beer offer[to_deity]-SIM
samphi wahe-saη, nna n-thakt-uks-u, nna
 ginger offer[to_deity]-SIM that 3PL.A-worship-PRF-3.P[PST] that
thakma=se n-darokt-u=na,
 worship-INF=RESTR 3PL.A-start-3.P[PST]=NMLZ.SG
 Saying: 'Please cover the sky a little for us, please make it a bit chilly for
 us!', offering beer, offering ginger, they worshipped that stone, and just
 when they started to worship,

- (80) *n-darokt-uksa=ninja wasik ta-ma tarokt-uks-u.*
 3PL.A-start-PST.PRF=CTMP rain come-INF start-PRF-3.P[PST]
 when they started (worshipping), it started to rain.
- (81) *nhan unci η-gy-a=hoη wasik ta-ya-by-a,*
 and_then 3NSG 3PL-come_up-PST=SEQ rain come-PST-V2.GIVE-PST[3SG]
ucun leks-a.
 good become-PST[3SG]
 And when they came up (from the place of the stones), it was raining for them, it became nice.
- (82) *heksaη pheri nam, wasik=se tuknuη ta-ya=hoη,*
 behind again sun rain=RESTR thoroughly come-PST[3SG]=SEQ
tuknuη wasik ta-ya, haku i cok-ma,
 thoroughly rain come-PST[3SG] now what do-INF
η-ga-ya-ma.
 3PL-say-PST-PRF
 Later though, as sun and rain got worse again, it rained quite a lot; ‘Now what to do?’, they said.
- (83) *pheri ηkha?niη=ca, haku, pheri na liηkha=ga te?ma,*
 again that_time=ADD now again this a_clan=GEN clan_sister
limbukhim=ga taηme?=ηa, nna thak-ma=na
 a_clan=GEN daughter-in-law=ERG that worship-INF[DEONT]=NMLZ.SG
η-ga-ya-ma.
 3PL-say-PST-PRF
 At that time, again, that Linkha girl, the daughter-in-law of the Limbukhims, she has to do the worship, they said.
- (84) *imin thak-ma, eh, na, haku, na wasik la-ni*
 how worship-INF[DEONT] oh this now this rain return-OPT
bhoη thak-ma=na η-ga-ya-ma
 PURP worship-INF[DEONT]=NMLZ.SG 3PL-say-PST-PRF
haiko=ha=ci=ηa.
 other=NMLZ.NSG=NSG=ERG
 As for how to worship, now, in order for the rain to go back, one has to do the worship, the others said.
- (85) *na wasik la-ni bhoη imin thak-ma=na*
 this rain return-OPT purp how worship-INF[DEONT]=NMLZ.SG
baηniη, lu, nam, ikhiη mi?wa
 about INIT sun how_much tear

hond-end-u-g=ha, haku=go nam=ca
 uncover-V2.INSERT-3.P[PST]-2=NMLZ.NSG now=TOP sun=ADD
hond-end-u ka-saṇ n-thakt-uks-u.
 uncover-V2.INSERT-3.P[PST] say-SIM 3PL.A-worship-PRF-3.P[PST]
 For that rain to stop, as for how one has to do the worship: ‘Oh, Sun [false
 start], how many tears you (the sky) have dropped, now also make the sun
 come out!’ they said, and did the worship.

- (86) *nhaṇ nam phen-a-ma.*
 and_then sun shine-PST[3SG]-PRF
 And the sun shone.

- (87) *ṇkha?niṇa nna luṇkhwak=pu cilleṇ wallen*
 that_time that stone=HSY lying_on_the_back lying_on_the_front
leṇ-ma sa=na=bu.
 overturn-INF[DEONT] COP.PST=NMLZ.SG=HSY
 Thus, that stone had to be turned around to the back and to the front.

- (88) *nna=be sum=ci luṇkhwak ṇ-wa-ya, eko namthaluṇma,*
 that=LOC three=NSG stone 3PL-exist-PST one Namthalungma
eko lalaluṇma, heko=na=ga u-niṇ
 one Lalalungma other=NMLZ.SG=GEN 3SG.POSS-name
i=na=?lo, ka=ca mund-i-ṇ.
 what=NMLZ.SG=EXCLA 1SG[ERG]=ADD forget-COMPL-1SG.A
 There were three stones, one was Namthalungma, one Lalalungma, and the
 name of the other stone – what – I forgot it, too.

- (89) *nnakha luṇkhwak=ci leṇ-ma=ci=bu, nam phen-ni*
 those stone=NSG overturn-INF[DEONT]=NSG=HSY sun shine-OPT
bhoṇ, nam=bhaṇ leṇ-ma=na,
 purp sun=ABL overturn-INF[DEONT]=NMLZ.SG
 These stones have to be turned around, in order for the sun to shine, they
 have to be turned away from the sun.

- (90) *wasik ta-ni bhoṇ wasik=phaṇ luṇkhwak*
 rain come-OPT comp rain=ABL stone
leṇ-ma=na.
 overturn-INF[DEONT]=NMLZ.SG
 In order for the rain to come, they had to be turned away from the rain.

- (91) *ηkha mamu=ci=ηa ηkha luηkhwak*
 those girl=NSG=ERG those stone
n-leks-u-ci=ha=bu, *hensen ηkha*
 3PL.A-overturn-3.P[PST]-3NSG.P=NMLZ.NSG=HSY nowadays those
munthum=ca mamu=ci=ηa isa=ηa=ca
 oral_ritual_tradition=ADD GIRL=NSG=ERG who=ERG=ADD
n-nis-wa=nin.
 NEG-know-NPST-3PL.NEG
 Those girls have turned around those stones, it is said, even today, even though none of the girls know our ritual tradition.
- (92) *nna luηkhwak=ca ghak yaksan=ηa kham=ηa*
 that stone=ADD all grass=ERG soil=ERG
lumd-y-uks-u
 bury-COMPL-PRF-3.P[PST]
 Those stones are covered by grass and earth (nowadays).
- (93) *ηkha luηkhwak=ci η-wai?=ya, okhyu=be, mo*
 those stone=NSG 3PL-exist=NMLZ.NSG Okhyu=LOC down
coilikha=be,
 Coilikha=LOC
 Those stones are there, in Okhyu, down there, in Coilikha.
- (94) *nnakha luηkhwak=ci=man n-l-wa=ci=ha sum=ci*
 those stone=NSG=EMPH 3PL.A-call-NPST-3NSG.P=NMLZ.NSG three=NSG
namthaluηma.
 Namthalungma
 Those stones are called the three Namthalungma rocks.
- (95) *hoηkha=ci=ga na tablik om.*
 those_very=NSG=GEN this story COP
 This is their story.

The Linkha man's bet with the sun

oral narrative; speaker: Dhan Kumari Jimi (Tumok)

- (1) *lu?-ma=na, eko aniη=ga liηkha=ga.*
 tell-INF[DEONT]=NMLZ.SG one 1DU.EXCL.POSS=GEN a_clan=GEN
 It has to be told, one (story) about our Linkha clan.

- (2) *aniŋ=ga liŋkha=ga uhiile utpatti mamliŋ=be*
 1DU.EXCL.POSS=GEN a_clan=GEN long_time_ago origin Mamling=LOC
leks-a=na=bu.
 happen-PST[3SG]=NMLZ.SG=HSY
 Our Linkha clan originated long ago in Mamling, they say.
- (3) *mamliŋ=bhaŋ wan=ne uhiile liŋkha=ci*
 Mamling=ABL exist[3SG]=NMLZ.SG long_time_ago a_clan=NSG
nam=nunŋ bagari n-jog-a, ŋ-ga-ya, bagari.
 SUN=COM bet 3PL-do-PST 3PL-say-PST bet
 The Linkhas from Mamling, long ago they had a bet with the sun, they said,
 a bet.
- (4) *bagari n-joga, nhaŋ bagari n-jog-a=niŋa, nna*
 bet 3PL-do-PST and_then bet 3PL-do-PST=CTMP that
liŋkha=ga, uk=ka u-pik=ci waisa=bu, nhaŋ
 a_clan=GEN 3SG.POSS=GEN 3SG.POSS-COW=NSG COP.PST[3]=HSY and_then
pik=ci chu?ni-ma paŋne, luŋkhwak
 COW=NSG tie-COMPL-INF[DEONT] having_to stone
hoŋ-ma paŋne, nhaŋ khibak=ca
 make_hole-INF[DEONT] having_to and_then rope=ADD
ip-ni-ma paŋne sa=bu.
 twist-COMPL-INF[DEONT] having_to COP.PST=HSY
 They made a bet, and as they made a bet, that Linkha, he had cows, it is
 said, and he had to tie the cows, he had to hole out a stone, and he had to
 complete making a rope, too, it is said.
- (5) *nam a-ya=niŋa, uŋci=ga hon=na*
 sun descend-PST[3SG]=CTMP 3NSG.POSS=GEN that_very=NMLZ.SG
leks-a, ce?ya.
 happen-PST[3SG] matter
 During sunset, they settled that matter.
- (6) *nhaŋ nam wandikŋa lom-me?niŋa hoŋkhiŋ*
 and_then sun next_day come_out-NPST[3SG]=CTMP that_much
cok-ni-ma paŋne sa=bu.
 do-COMPL-INF[DEONT] having_to COP.PST=HSY
 And then, during the dawn of the next day, all that work had to be finished,
 it is said.

- (7) *kha?ningo lin̄kha ekdam cog-a=nun cog-a=nun,*
 but a_clan very do-PST[3SG]=COM.CL do-PST[3SG]=COM.CL
hakok=ŋa bis wora, ikhiŋ, khibak=ca ipt-i-ci,
 later=INS twenty CLF how_many rope=ADD twist-COMPL-3NSG.P
ka-ya=na anusar.
 say-PST[3SG]=NMLZ.SG according_to
 But the Linkha, he worked and worked, he wove twenty ropes, according
 to what had been said.
- (8) *nhaŋ, luŋkhwak=ca hoks-i, nhaŋ luŋkhwak*
 and_then stone=ADD make_hole-COMPL[3.P] and_then stone
hoks-i=hoŋ, nhaŋ pik=ca
 make_hole-COMPL[3.P]=SEQ and_then cow=ADD
chu?-i-ci=niŋa=go, eko=chen=go
 tie-COMPL-3NSG.P=CTMP=TOP one=TOP=TOP
lukt-a-khy-a=na=bu, pik, goru.
 run-PST-V2.GO-PST[3SG]=NMLZ.SG=HSY cow buffalo
 And then he also completed holing out the stone, and as he completed
 holing out the stone, then, while he completed tying the cows, one cow,
 one of them ran away, it is said. A cow, a buffalo.
- (9) *lukt-a-khy-a=hoŋ, chu?-ma ŋ-gaks-a-n=oŋ,*
 run-PST-V2.GO-PST[3SG]=SEQ tie-INF NEG-accept-PST[3SG]-NEG=SEQ
nhaŋ nna wa bhale ka-ya-khy-a.
 and_then that chicken rooster call-PST-V2.GO-PST[3SG]
 It ran away, it was not willing to be tied; and then the cock already crowed.
- (10) *wa bhale ka-ya=hoŋ, ekchin=ŋa pheri nam=ca*
 chicken rooster call-PST[3SG]=SEQ one_moment=INS again sun=ADD
lond-a-by-a, nhaŋ lin̄kha baji=be har-a
 come_out-PST-V2.GIVE-PST[3SG] and_then a_clan bet=LOC lose-NATIV
cog-a=na.
 do-PST[3SG]=NMLZ.SG
 As the cock crowed, in one moment the sun came out, too, and so the
 Linkha lost in the bet.
- (11) *har-a cog-a=na, i=na om, har-a*
 lose-NATIV do-NATIV=NMLZ.SG what=NMLZ.SG cop lose-NATIV
cog-a, nam=ŋa he=co, nam=ŋa
 do-PST[3SG] sun=ERG win-V2.EAT[3.P;PST] sun=ERG
he-co=hoŋ, lin̄kha sarap pi=na.
 win-V2.EAT[3.P;PST]=SEQ a_clan spell give[3.A;3.P]=NMLZ.SG

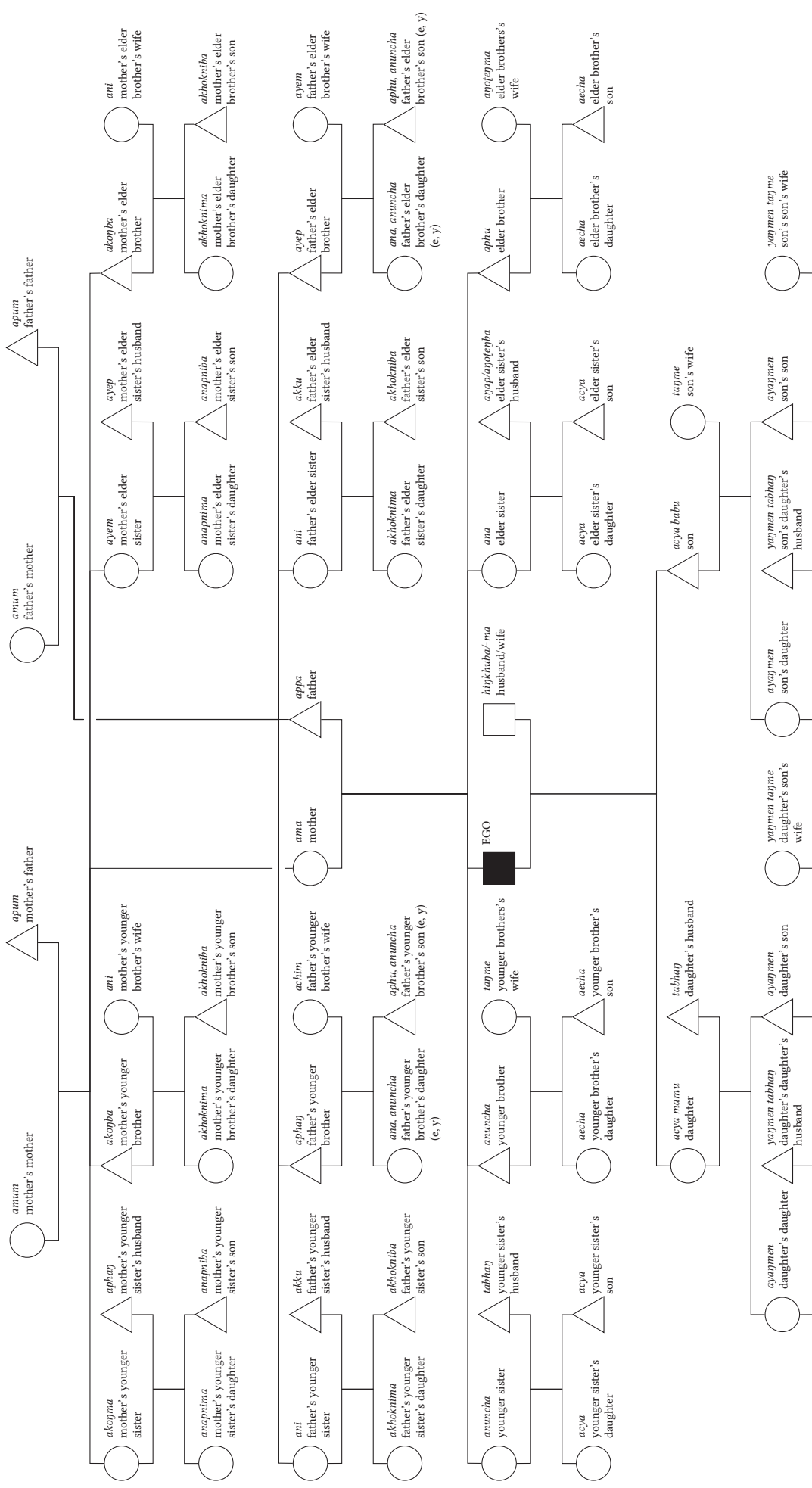
He lost, what is it (comment to herself), he lost, the sun won, and as the sun won, it put a spell on the Linkha.

- (12) *gali, thind-u=na.*
 swearwords, rant_at-3.P[PST]=NMLZ.SG
 It cursed him, and scolded him.
- (13) *nhaŋ issi=ya ceʔya lu=hoŋ, liŋkha=ŋa=bu*
 and_then bad=NMLZ.NC matter tell=SEQ a_clan=ERG=HSY
i=ya i=ya men-jok-ma baŋniŋ:
 what=NMLZ.NC what=NMLZ.NC NEG-do-INF[DEONT] about
 And then it said ugly things, and as for what the Linkha was not allowed to do:
- (14) *purba-paʔi dailo me-hiŋ-ma=na,*
 east-side door NEG-turn-INF[DEONT]=NMLZ.SG
 He shall not turn he door to the East.
- (15) *purba-paʔi dailo hiŋ-ma=niŋa ucun n-leŋ-me-n.*
 east-side door turn-INF=CTMP good NEG-become-NPST[3SG]-NEG
 It is not good when they turn the door to the East.
- (16) *nhaŋ cautara=ca men-jok-m=ha=ci,*
 and_then resting_place=ADD NEG-do-INF[DEONT]=NMLZ.NSG=NSG
baŋpipaʔl=ca men-liʔ-m=ha=ci.
 banyan_tree=ADD NEG-plant-INF[DEONT]=NMLZ.NSG=NSG
 And they shall neither build resting places, nor plant banyan trees.
- (17) *nhaŋ yoŋ=be=ca meʔ-im-ma=ci=bu,*
 and_then cradle=LOC=ADD NEG-put_to_sleep-INF[DEONT]=NSG=HSY
liŋkha=ci=ga.
 a_clan=NSG=GEN
 They shall not put them into in a bamboo cradle, too, the Linkha's (children).
- (18) *hoŋkhaʔla hoŋkhaʔla leks-a=hoŋ, liŋkha=ci=ŋa ŋkha*
 like_that like_that become-PST[3SG]=SEQ a_clan=NSG=ERG that
n-jog-wa-nin.
 NEG-do-NPST-3PL.NEG
 As it became like that, the Linkhas do not do that.

- (19) *uŋci uɬile nam=ŋa=bu u-chik*
 3NSG long_time_ago sun=ERG=HSY 3SG.POSS-hate
ekt-u-ci=hon thin, gali pi-ci=ya,
 hate-3.P[PST]-3NSG.P=SEQ [false.start], swearword give-3NSG.P=NMLZ.NSG,
eŋ=ga ceʔya=ŋ sarab pi-ci=ya
 1PL.INCL.POSS=GEN language=INS spell give-3NSG.P=NMLZ.NSG
leks-a.
 become-PST[3SG]
 Since the sun got angry at them long ago, it cursed them, it happened that
 it put a spell on them, in our language.
- (20) *honkhiŋ=maŋ loppi=ni.*
 that_much=EMPH perhaps=EMPH
 Just that much, probably.
- (21) *nhaŋ eko=bu, mo=na tala=ca*
 and_then one=HSY down floor=ADD
me-wa-m=ha=bu, mo=na tala to wa-ma=na
 NEG-live-INF[DEONT]=NMLZ.NSG=HSY lower floor up live-INF=NMLZ.SG
ucun=na, mo wa-ma=na issiʔ=na=bu, mo,
 good=NMLZ.SG down live-INF=NMLZ.SG bad=NMLZ.SG=HSY down
u-laŋ-tala=be.
 3SG.POSS-leg-floor=LOC
 And one thing, they say: the Linkhas shall not live on the ground floor, too,
 it is said; living above is good, living below is bad, on the ground floor.
- (22) *liŋkha=ci=ga lagi, honkhaʔla=on, honkhiŋ=se.*
 a_clan=NSG=GEN for like_that=SEQ that_much=RESTR
 For the Linkhas, like that, that much only.

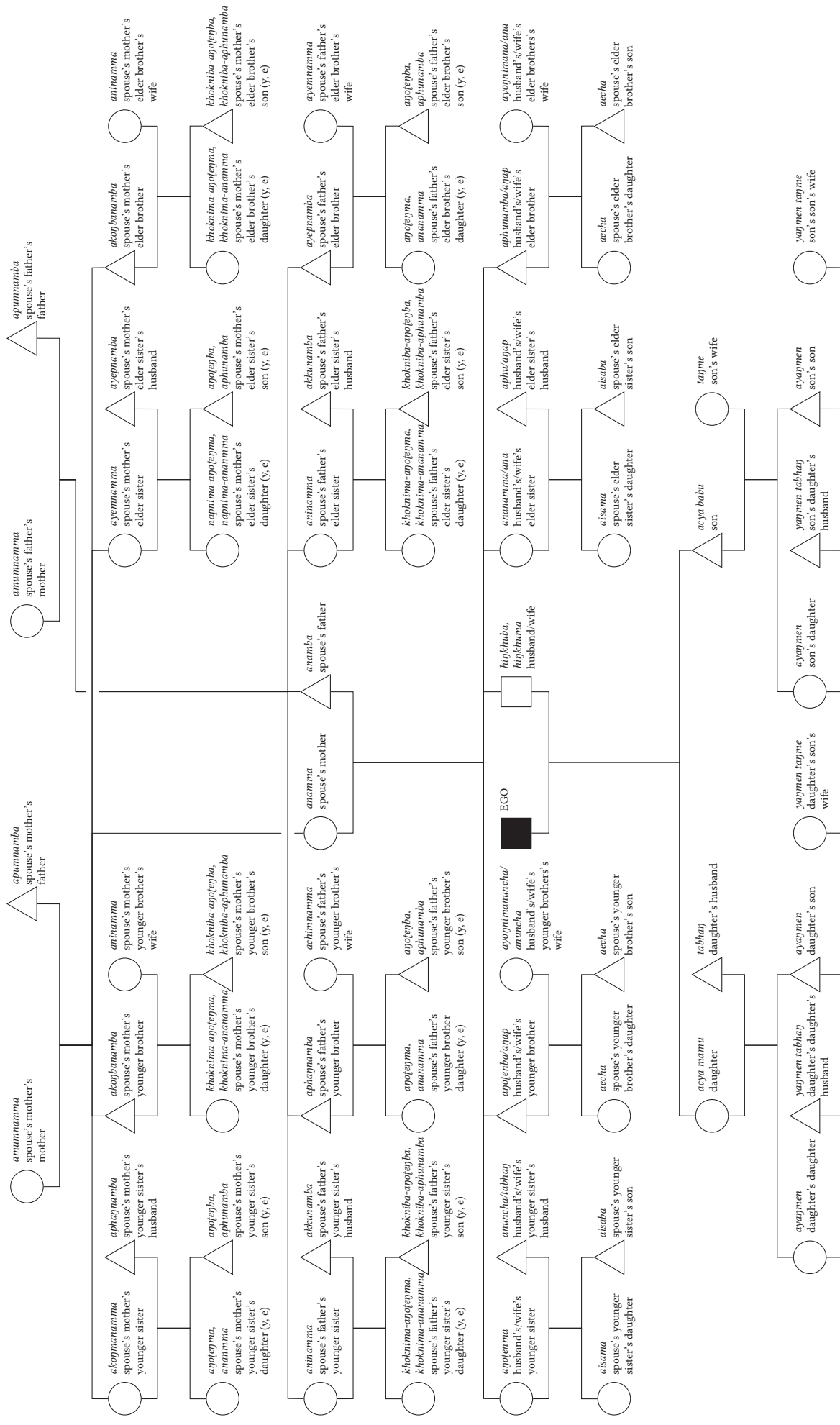
YAKKHA KINSHIP TERMS

– own family –



Further terms: great-grandparents: *cottu*; great-grandchildren: *kektu*; great-grandchildren: *sapsik*, *khopsik*; great-grandchildren: *po/lon*; great-grandchildren: *jo/lon*

– in-laws –



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<i>-nhantə</i>	temporal ablative	5.2.3
<i>-ni</i>	optative	8.5
<i>-nin</i>	plural and negation (verbal)	8.3, 8.2
<i>njin-</i>	possessive prefix, 2DU	4.2
<i>=niŋ ~ =niŋa</i>	cotemporal clause linkage	14.12
<i>=niŋgobi</i>	counterfactual clause linkage	14.13
<i>nnin-</i>	possessive prefix, 2PL	4.2
<i>=nun</i>	comitative case and clause linkage	5.2.2, 14.7
<i>-ŋ ~ -ŋa</i>	1SG, EXCL	8.2
<i>=ŋa</i>	ergative case and clause linkage	5.2.2, 14.4
<i>-pa</i>	nominalizer	13.1
<i>=pa</i>	sentential focus	17.2
<i>-paŋ</i>	numeral classifier	4.5.2
<i>=pe</i>	locative	5.2.2
<i>=phaŋ</i>	ablative	5.2.2
<i>=pi</i>	irrealis	17.3
<i>-piʔ</i>	function verb, 'give'	10.2.1, 11.3.3
<i>=pu</i>	hearsay marker	17.3
<i>rahecha</i>	mirative	17.3
<i>-raʔ</i>	function verb, 'come'	10.2.6
<i>-raʔ</i>	function verb, 'bring'	10.2.7
<i>-ris</i>	function verb, 'place'	10.2.12
<i>-sa</i>	infinitive	8.9, 15.1
<i>-saŋ</i>	simultaneous converb	14.5
<i>-se</i>	supine converb	14.2
<i>=se</i>	restrictive focus	17.2
<i>-siʔ</i>	progressive	8.4.3
<i>-siʔ</i>	middle	10.2.4, 11.3.6

<i>-si?</i>	function verb, 'avoid'	10.2.24
<i>-so?</i>	function verb, 'look'	10.2.25
<i>-t</i>	benefactive	11.3.3
<i>u-</i>	possessive prefix, 3SG	4.2
<i>-u</i>	3.P (verbal)	8.2
<i>=u</i>	vocative	17.5
<i>-uks</i>	function verb, 'come down'	10.2.8
<i>-uks ~ -nun</i>	perfect	8.4
<i>-uks ~ -nun</i>	function verb, continuative	10.2.20
<i>-uks ~ -uksa</i>	past perfect	8.4
<i>-ukt</i>	function verb, 'bring down'	10.2.9
<i>un̄ci-</i>	possessive prefix, 3NSG	4.2
<i>-wa</i>	nonpast	8.4
<i>=?lo</i>	exclamative	17.4

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